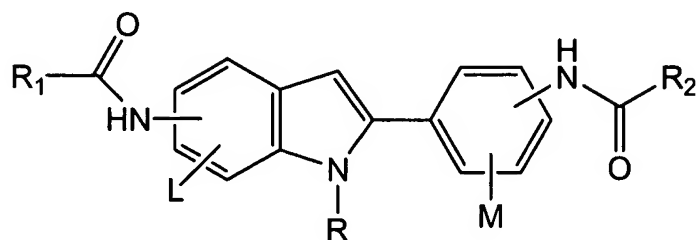
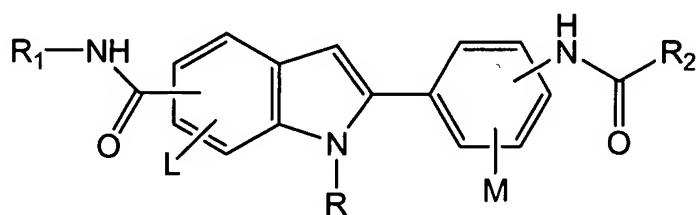


AMENDMENTS TO THE CLAIMS

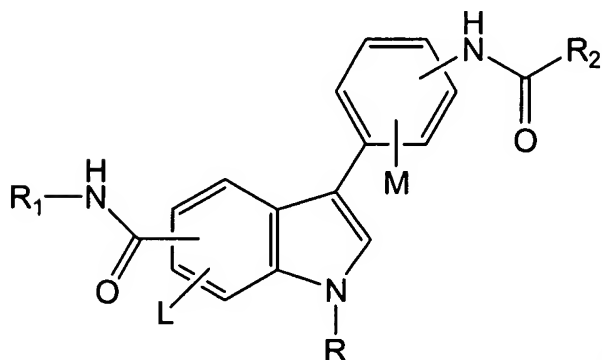
1. (Previously presented) A compound or salt thereof having any one of the following formulas:



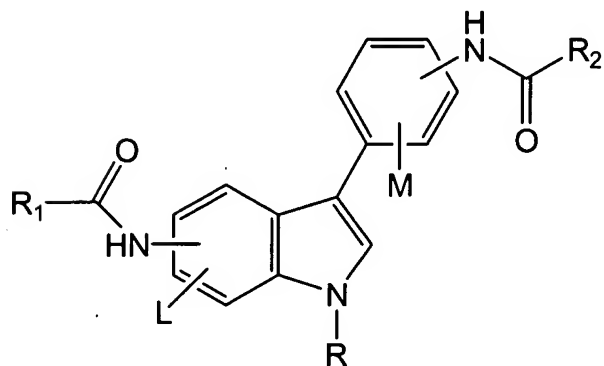
Genus I;



Genus II;



Genus III; and



Genus IV;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF₃, OCF₃, CONH₂, CONHR and NHCOR₁;

wherein R is selected from the group consisting of H, C₁-C₅ alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C₁-C₅ alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R₁ and R₂ are independently selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heterocyclic, polycyclic heterocyclic, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, hydroxyamino, alkoxyamino, carbonyl, OH, OCH₃, COOH, COOR', COR', CN, CF₃, OCF₃, NO₂, NR'R', NHCOR', and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

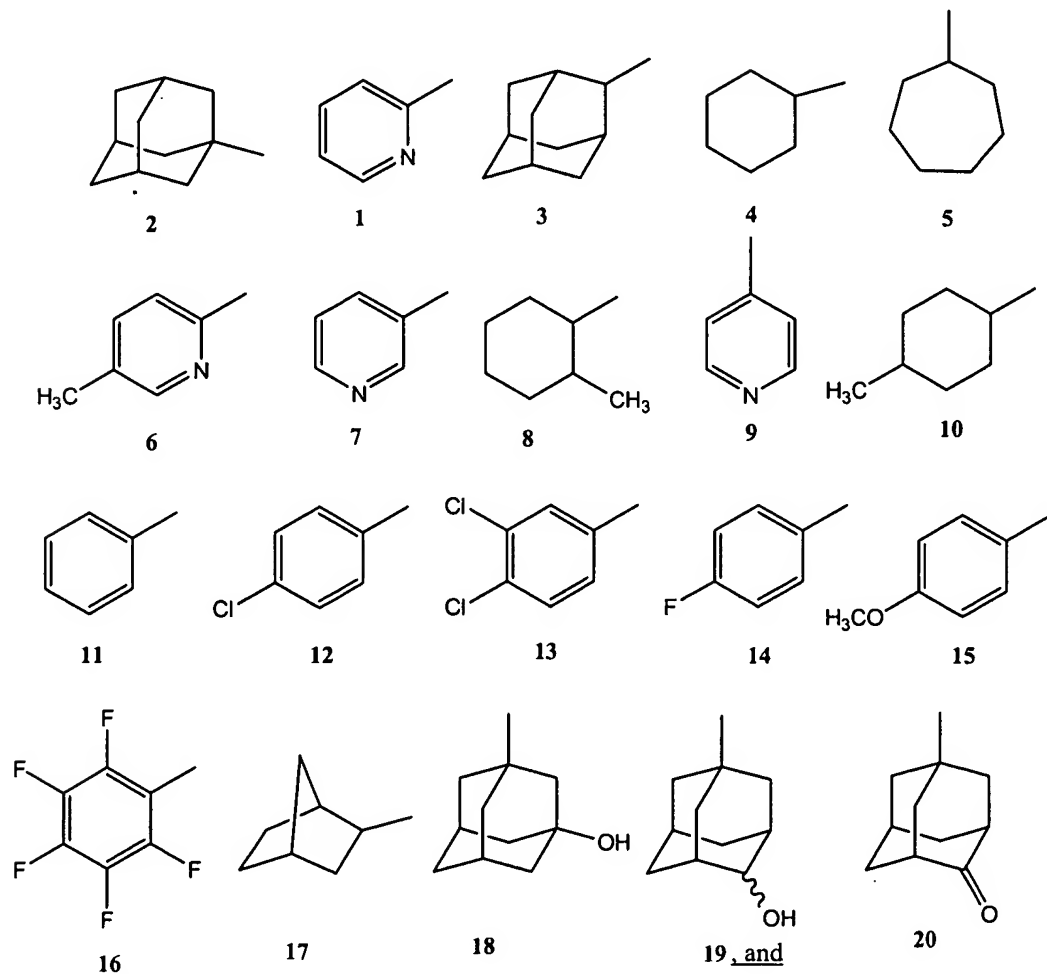
2. (Previously presented) The compound or salt thereof of Claim 1, wherein said polycyclic aliphatic group is selected from the group consisting of adamantyl, bicycloheptyl, camphoryl, bicyclo[2,2,2]octanyl and norbornyl.

3. (Previously presented) The compound or salt thereof of Claim 1, wherein said heteroaryl and said substituted heteroaryl is selected from the group consisting of pyridines, thiazoles, isothiazoles, oxazoles, pyrimidines, pyrazines, furans, thiophenes, isoxazoles, pyrroles, pyridazines, 1,2,3-triazines, 1,2,4-triazines, 1,3,5-triazines, pyrazoles, imidazoles, indoles, quinolines, iso-quinolines, benzothiophenes, benzofurans, parathiazines, pyrans, chromenes,

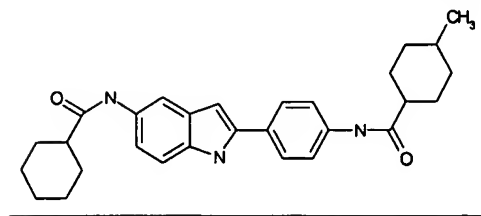
pyrrolidines, pyrazolidines, imidazolidines, morpholines, thiomorpholines, and the corresponding heterocyclics.

4. (Cancelled)

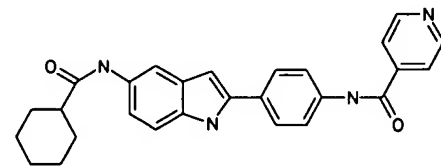
5. (Previously presented) The compound or salt thereof of Claim 1, wherein R₁ and R₂ are independently selected from the following:



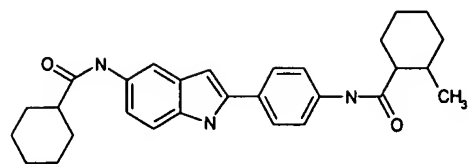
6. (Currently amended) The compound or salt thereof of Claim 1 selected from the group consisting of the following compounds: ~~S1-S123, T1-T102, U1-U18 and V1-V28.~~



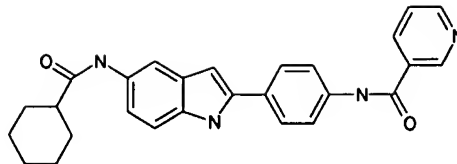
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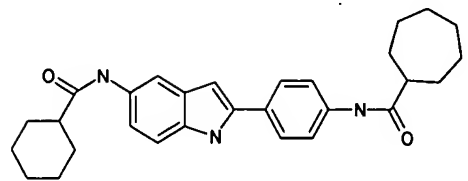
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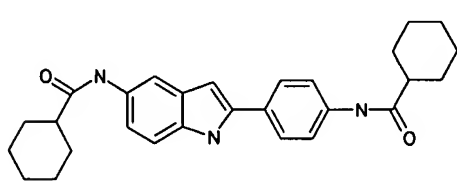
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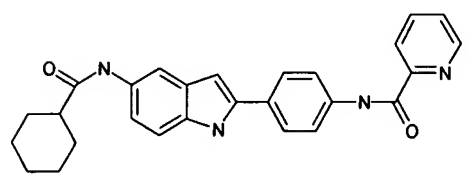
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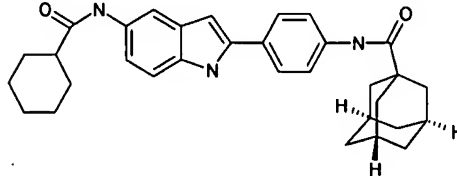
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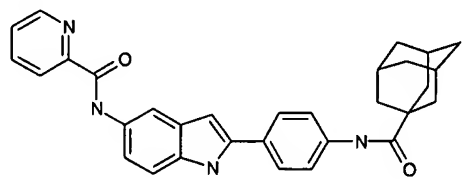
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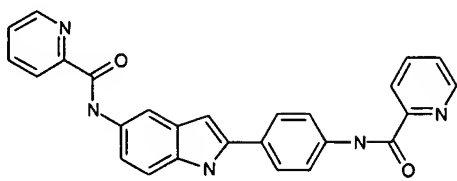
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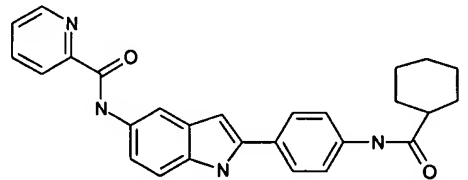
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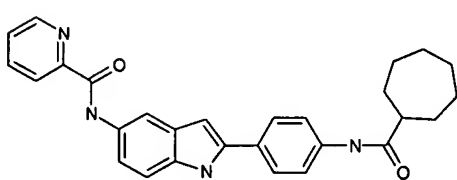
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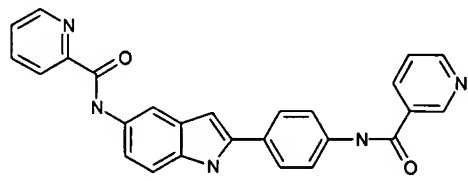
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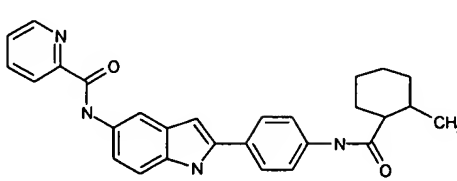
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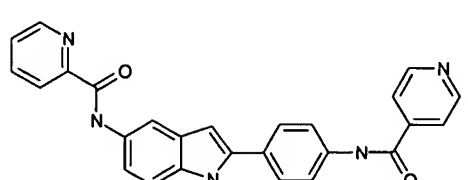
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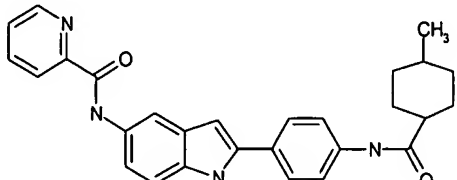
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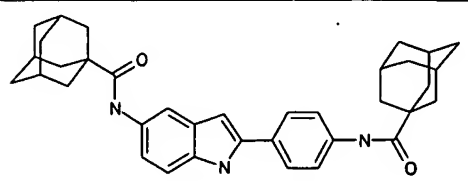
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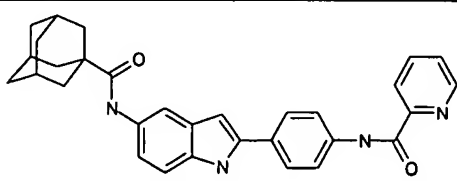
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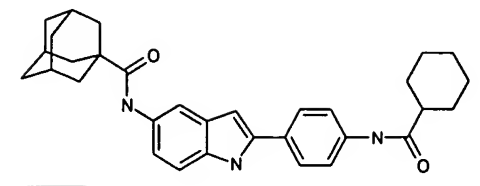
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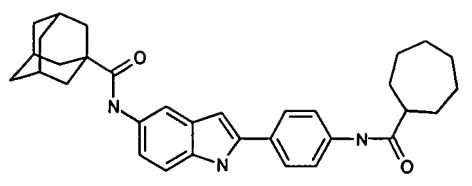
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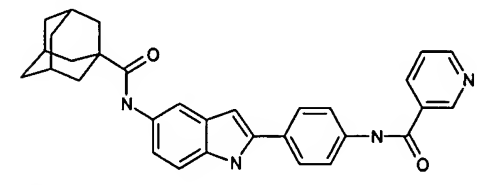
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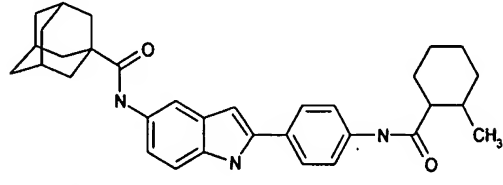
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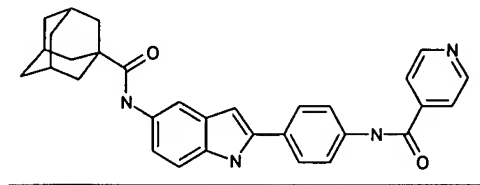
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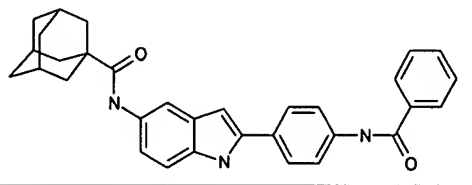
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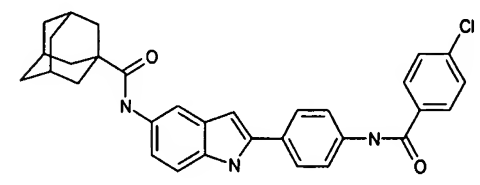
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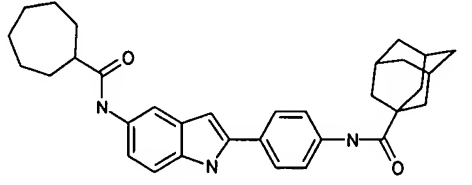
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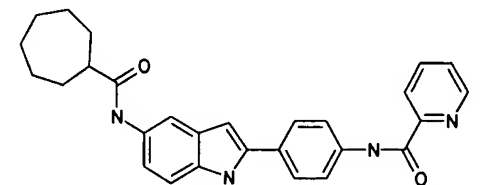
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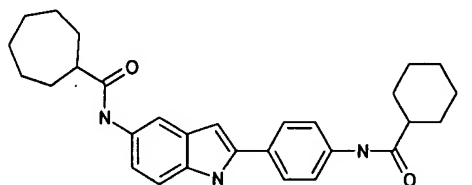
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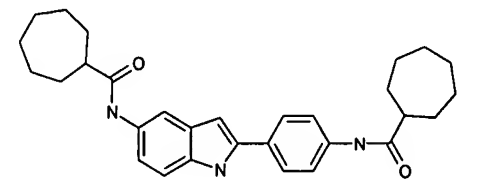
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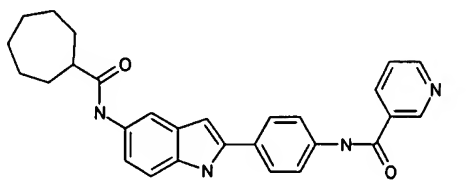
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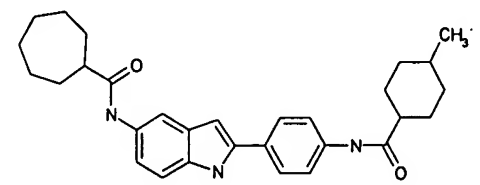
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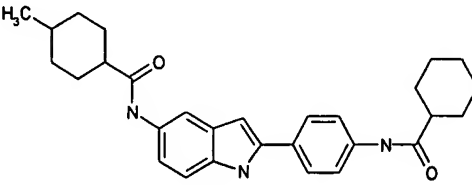
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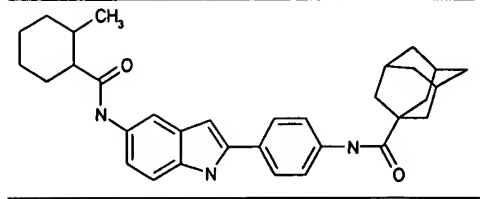
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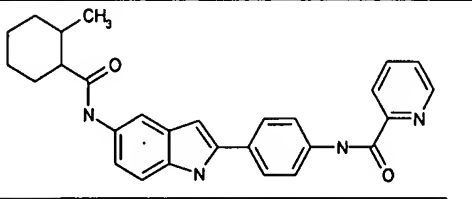
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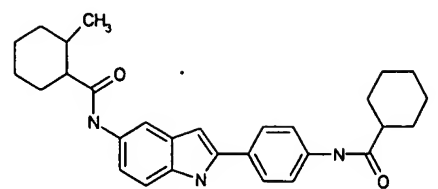
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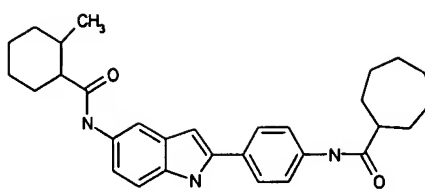
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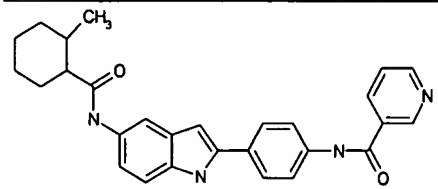
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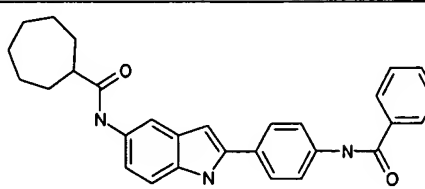
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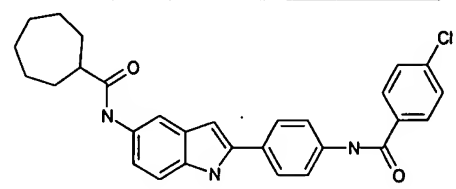
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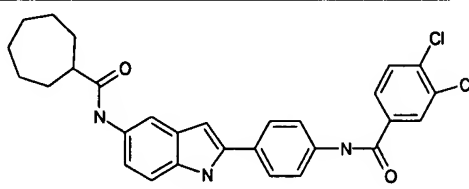
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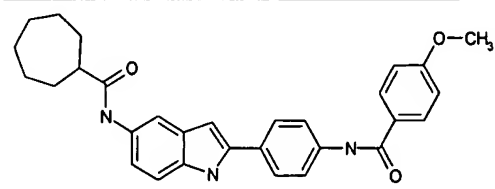
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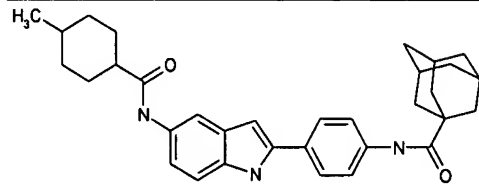
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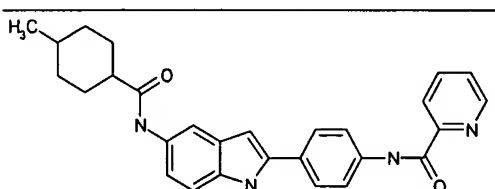
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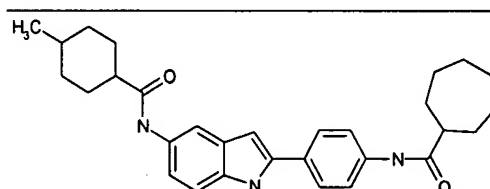
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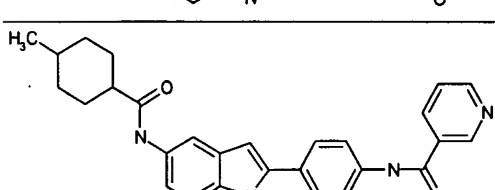
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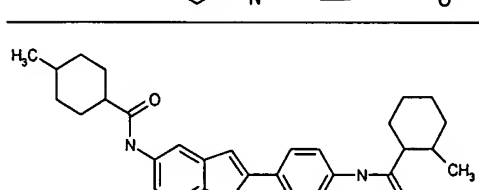
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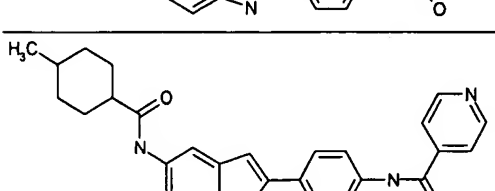
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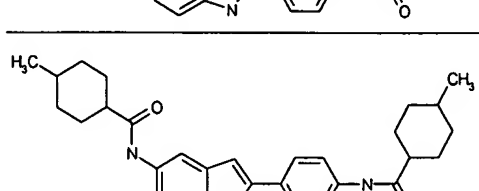
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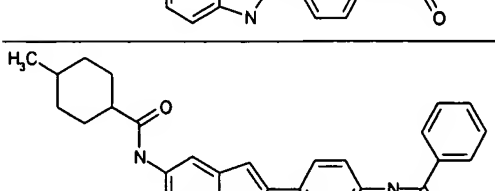
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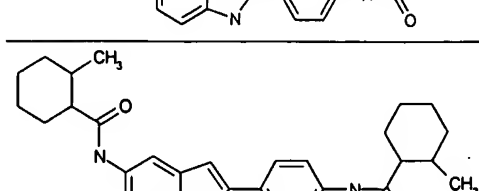
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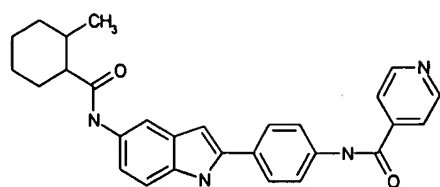
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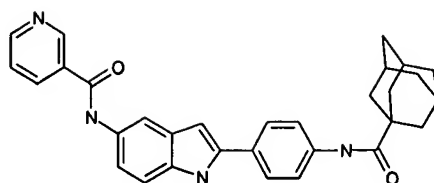
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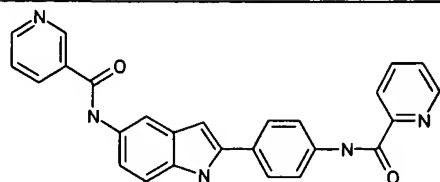
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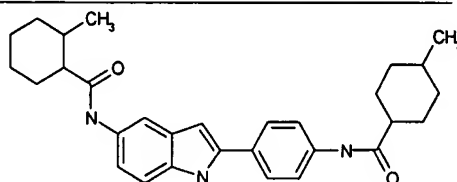
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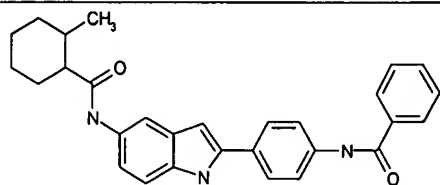
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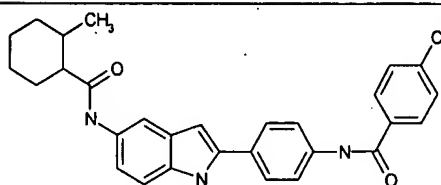
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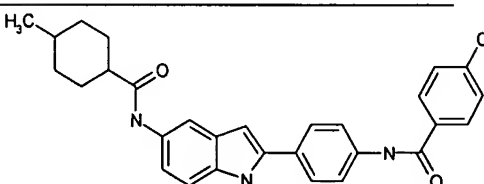
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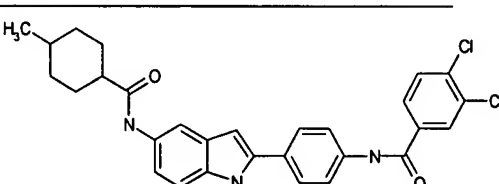
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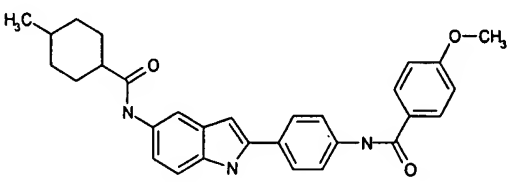
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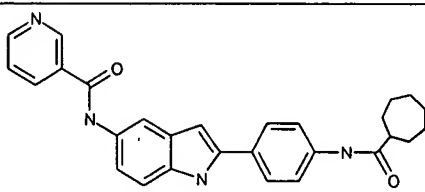
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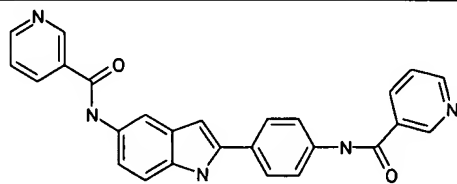
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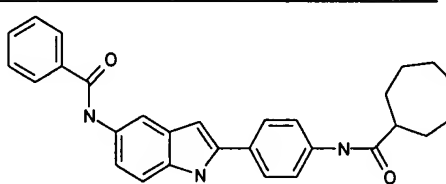
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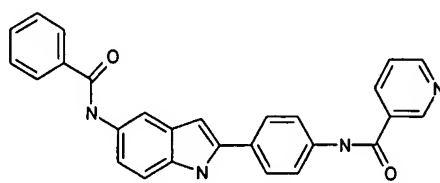
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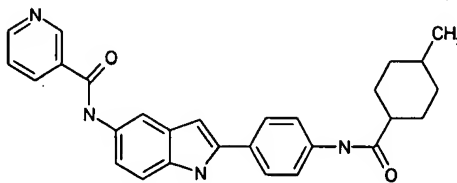
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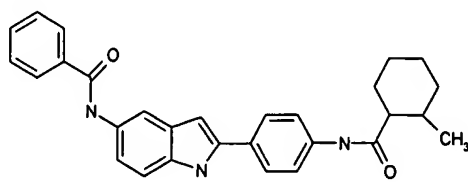
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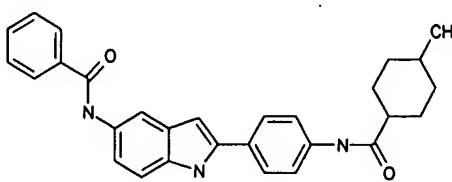
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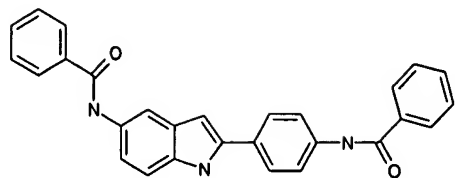
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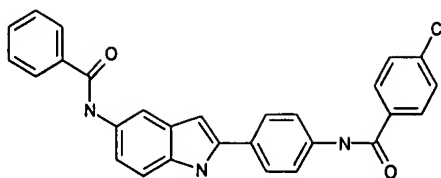
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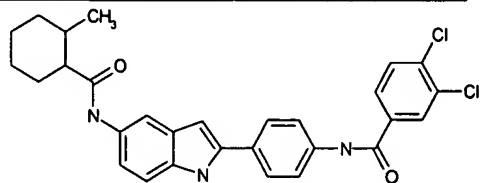
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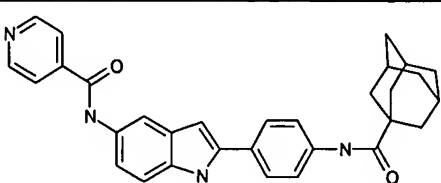
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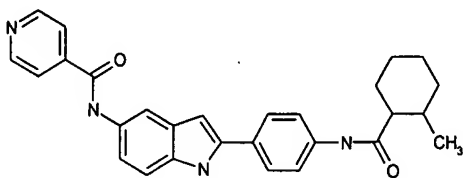
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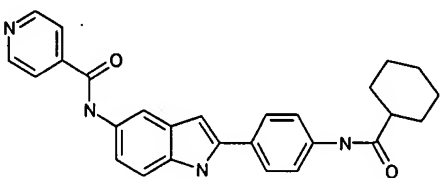
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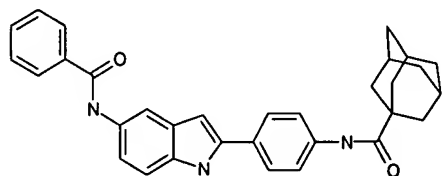
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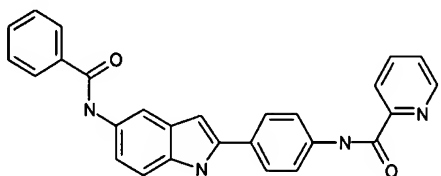
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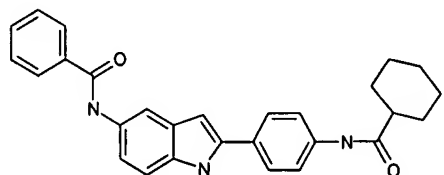
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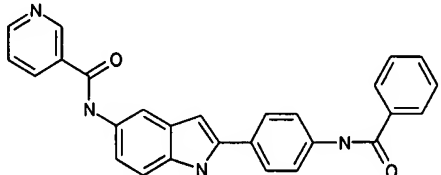
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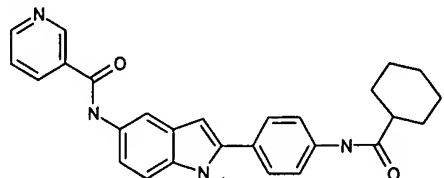
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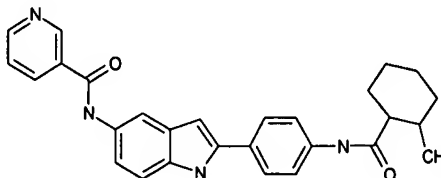
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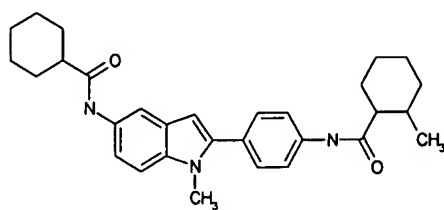
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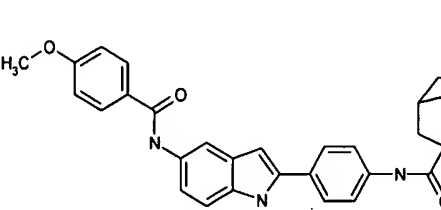
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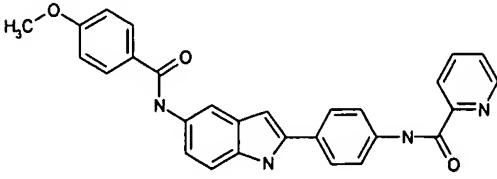
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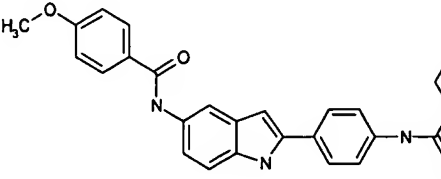
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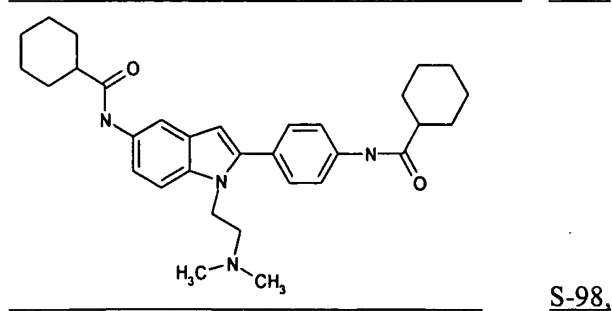
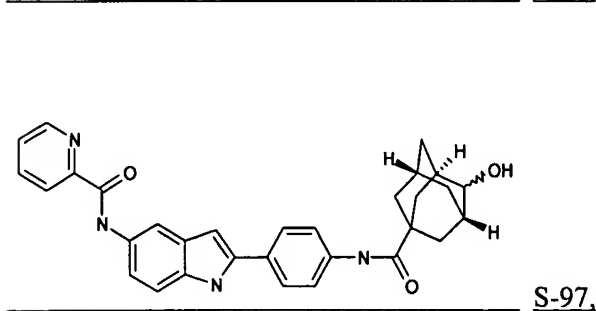
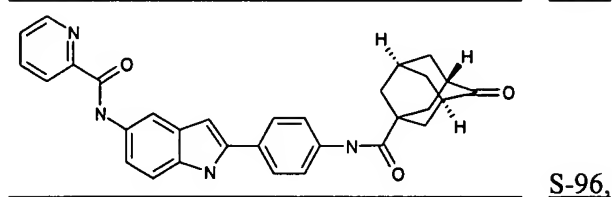
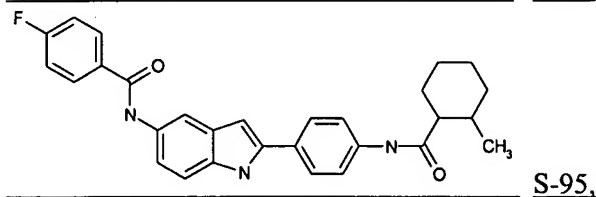
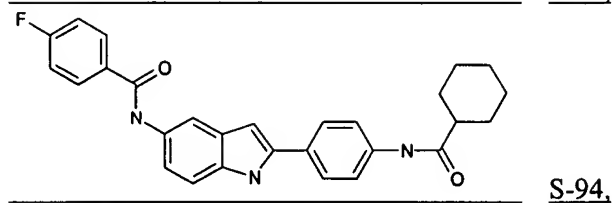
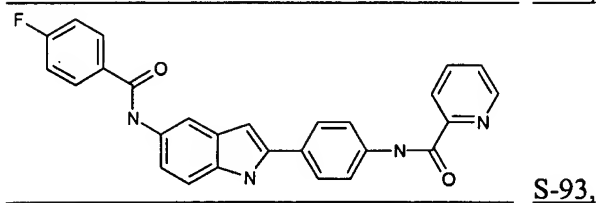
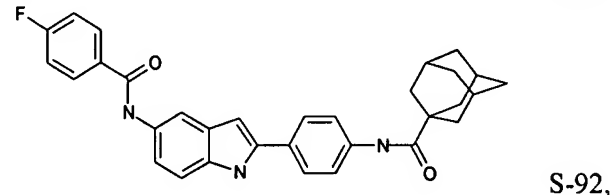
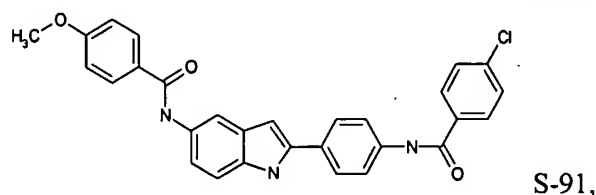
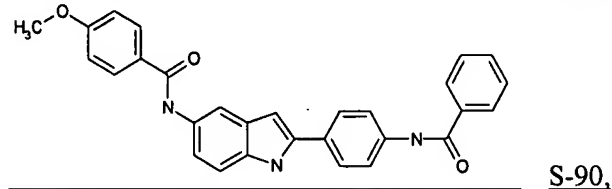
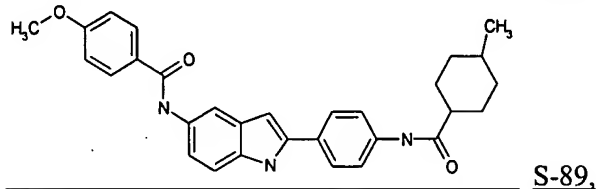
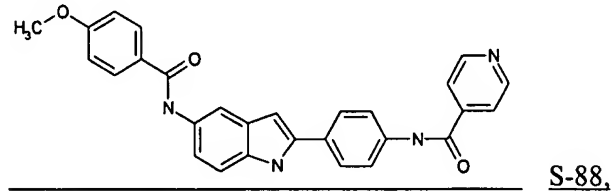
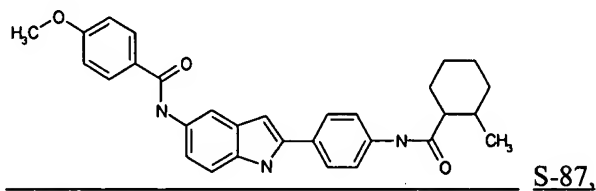
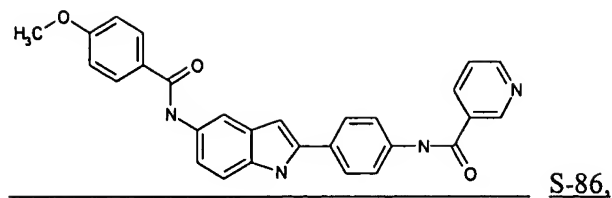
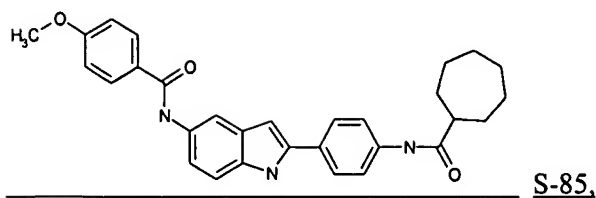
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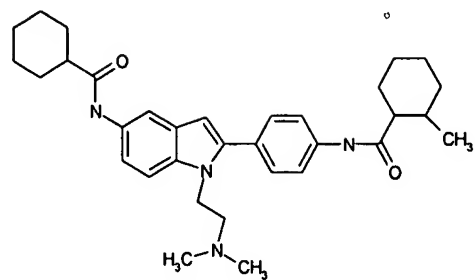


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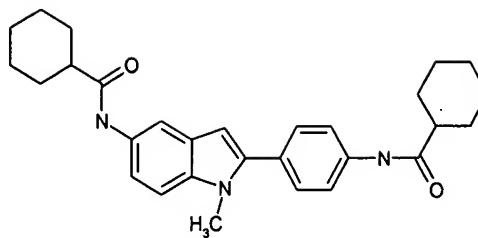


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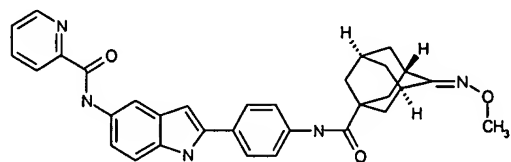




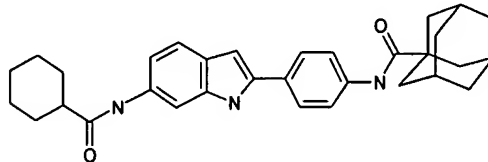
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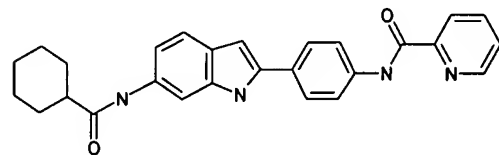
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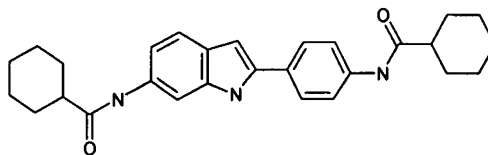
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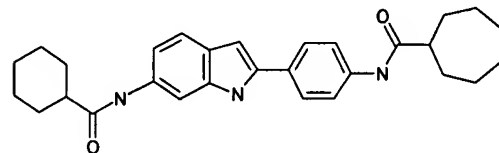
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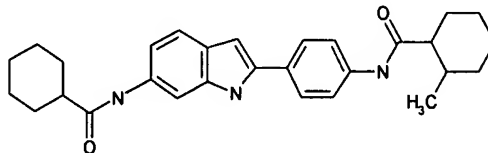
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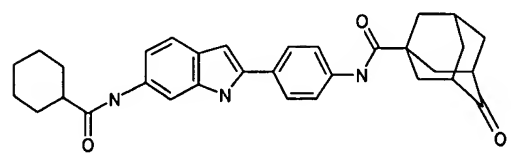
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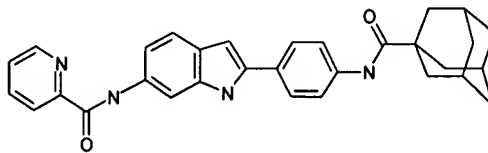
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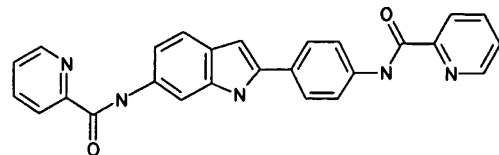
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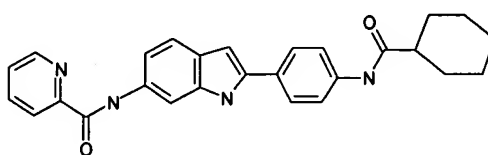
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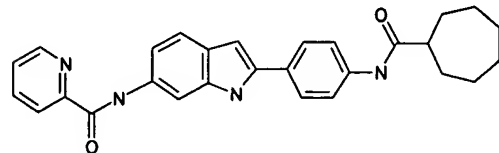
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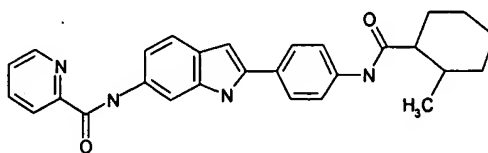
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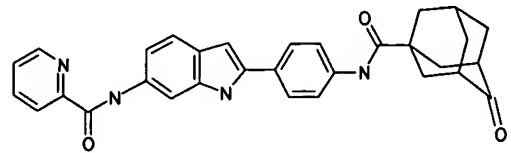
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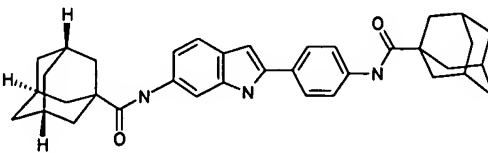
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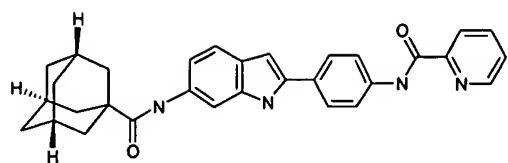
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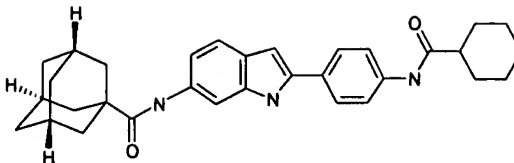
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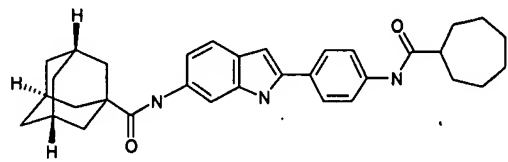
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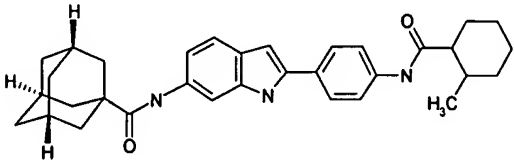
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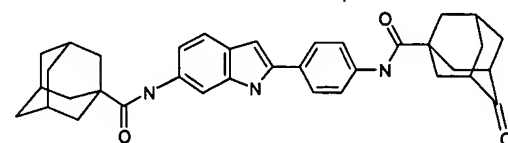
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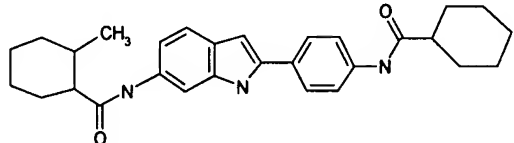
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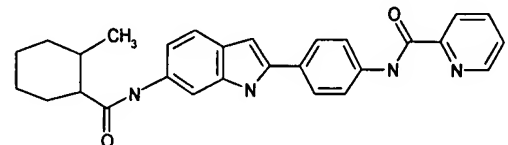
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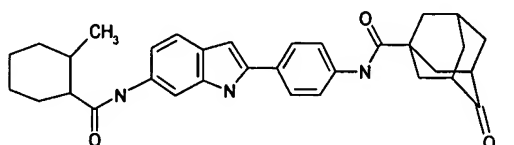
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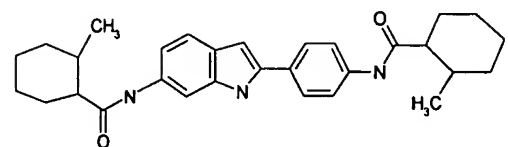
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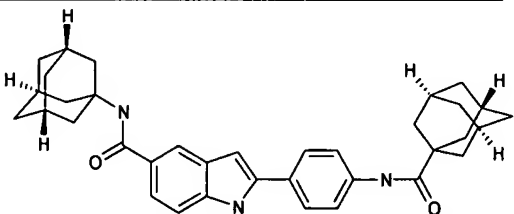
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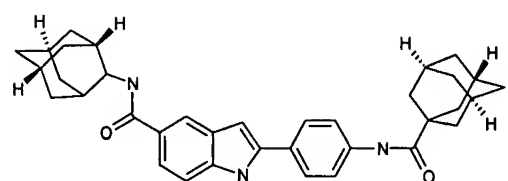
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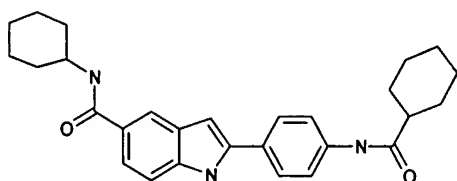
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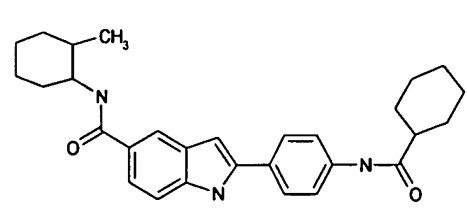
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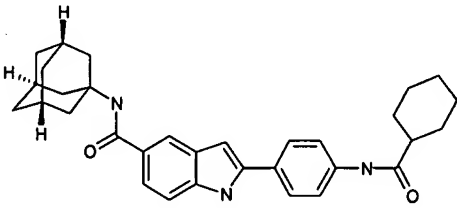
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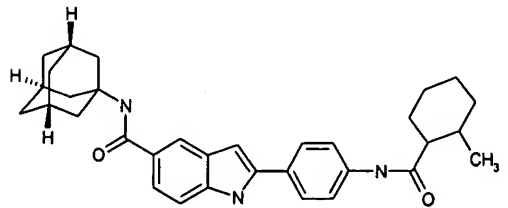
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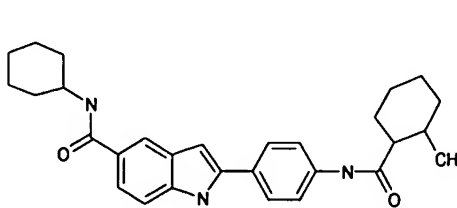
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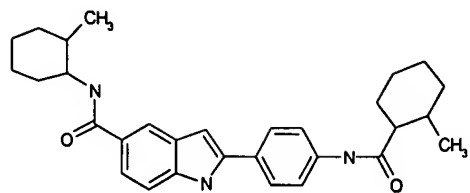
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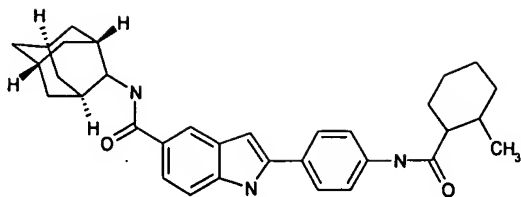
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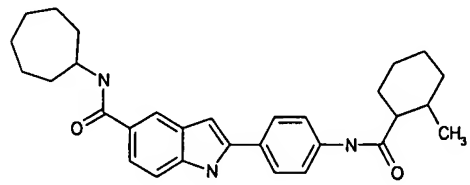
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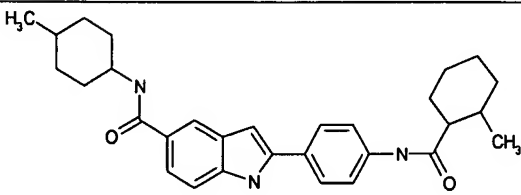
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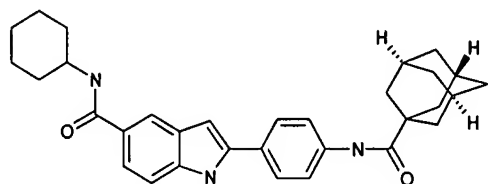
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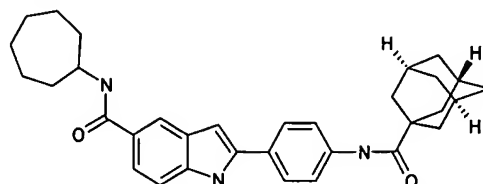
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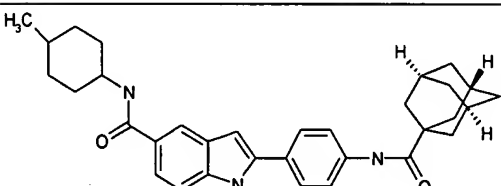
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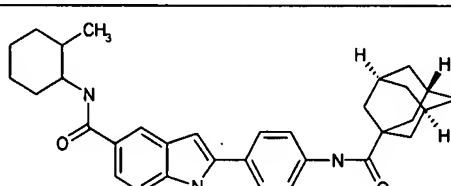
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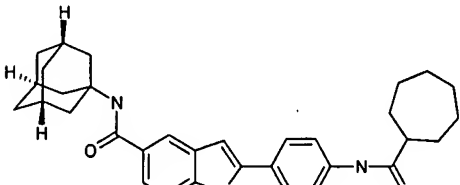
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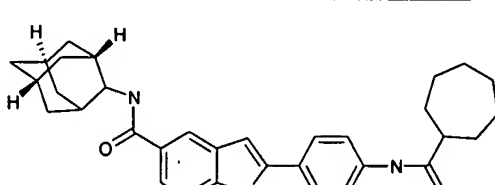
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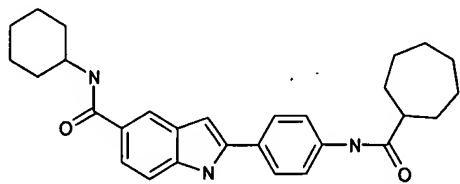
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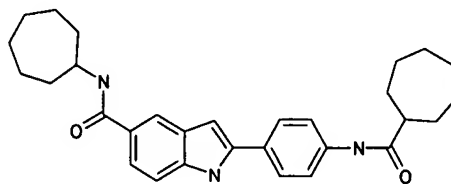
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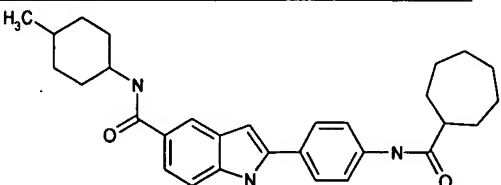
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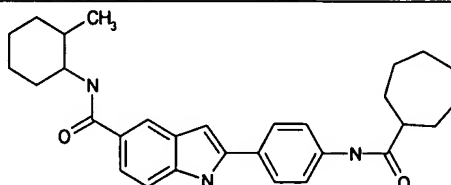
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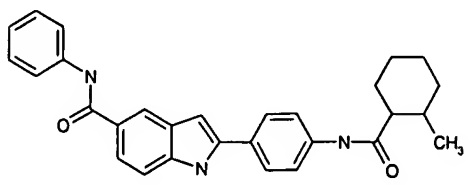
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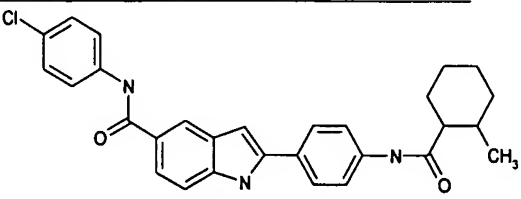
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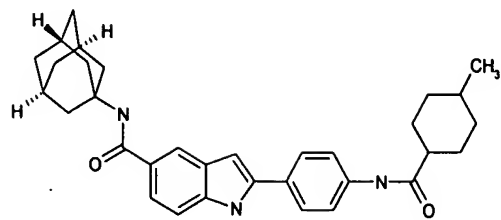
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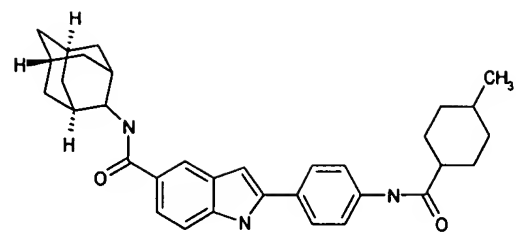
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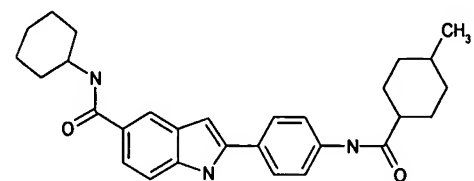
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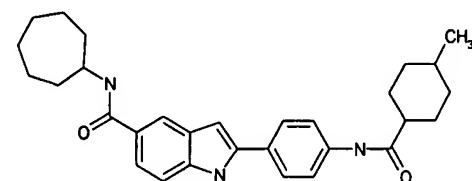
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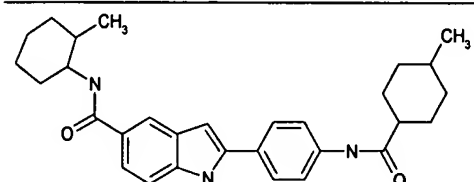
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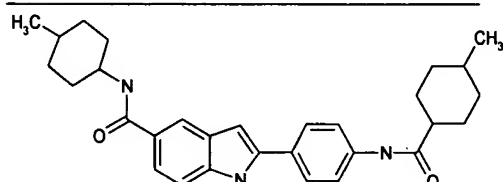
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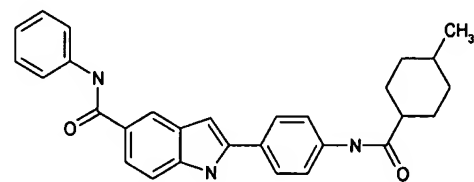
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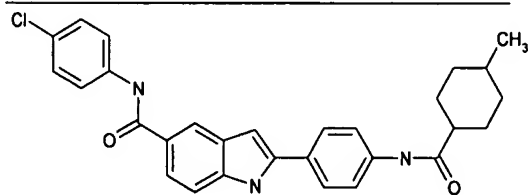
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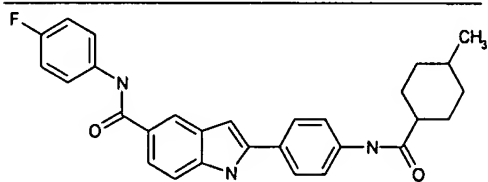
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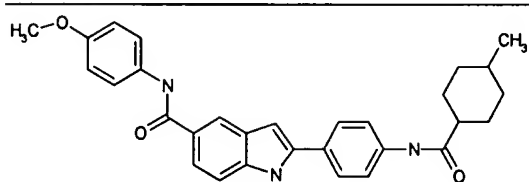
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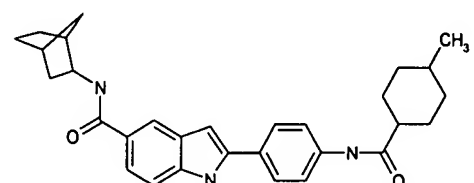
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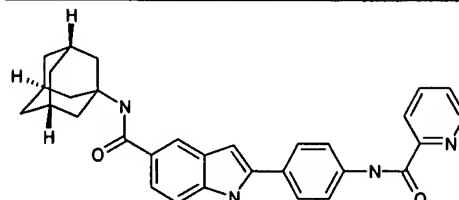
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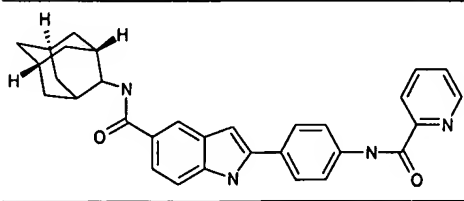
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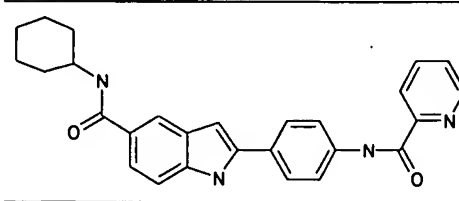
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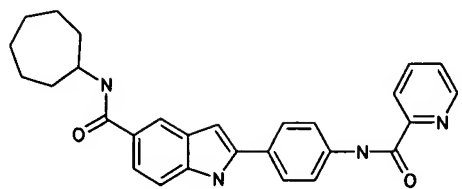
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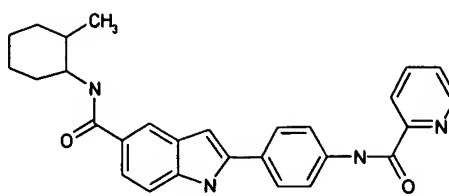
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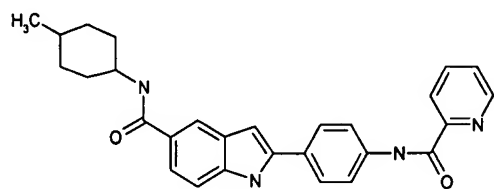
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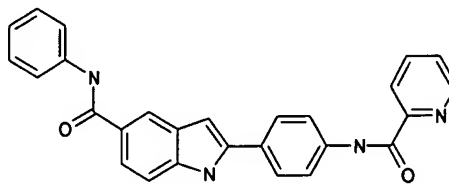
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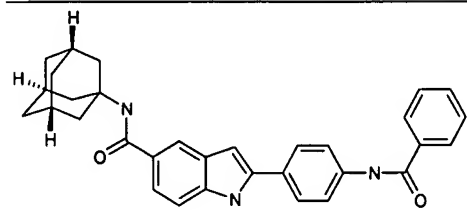
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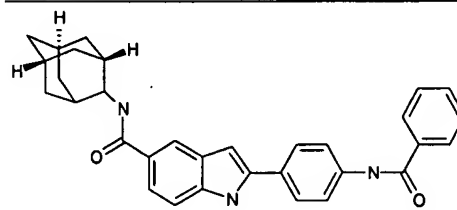
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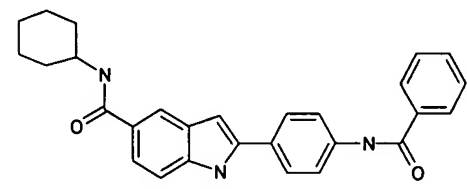
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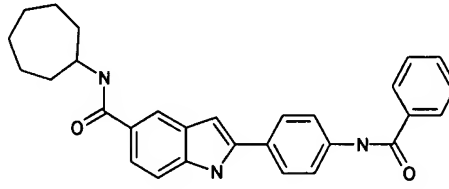
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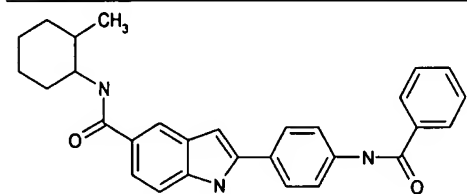
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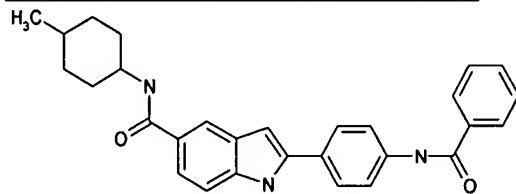
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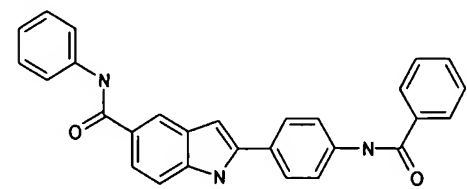
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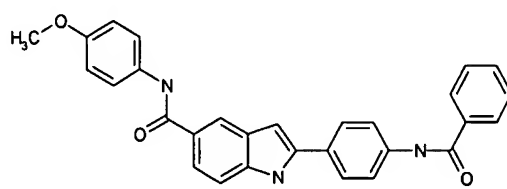
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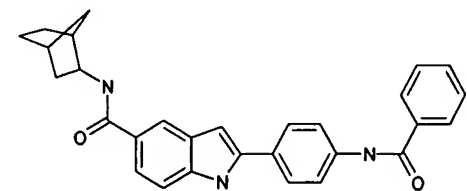
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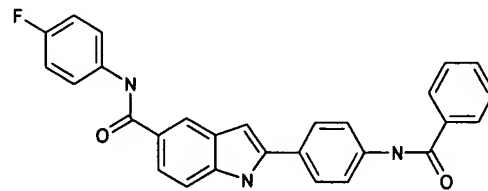
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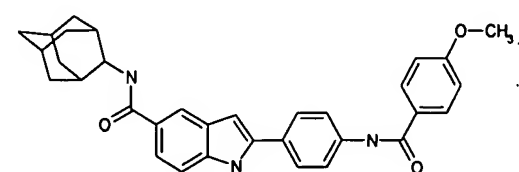
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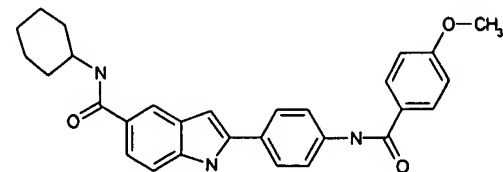
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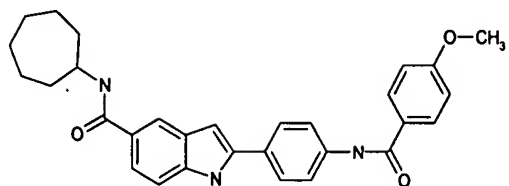
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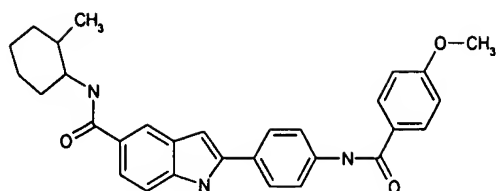
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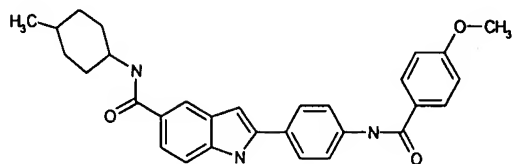
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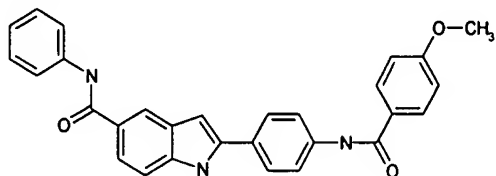
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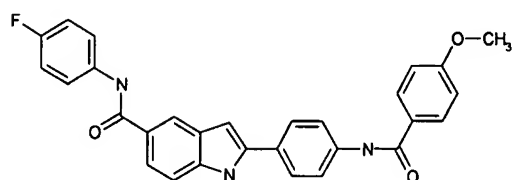
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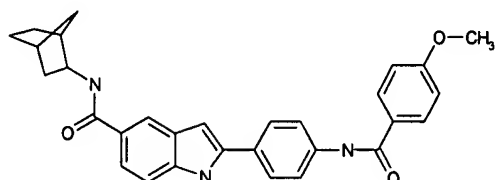
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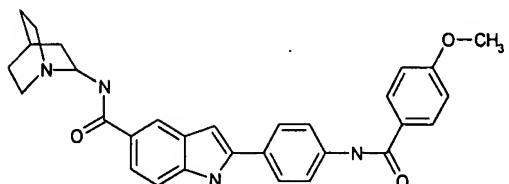
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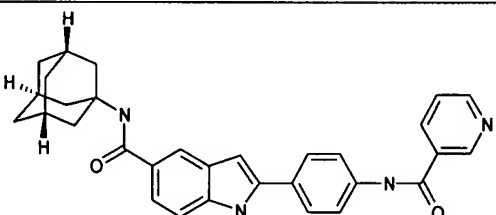
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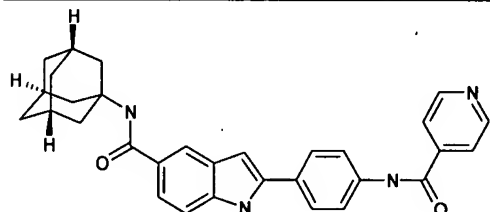
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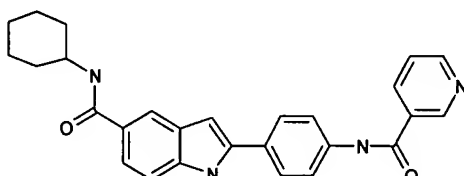
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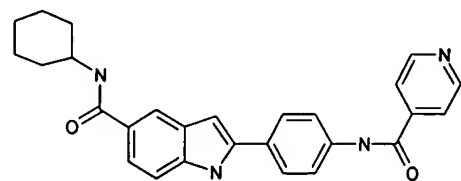
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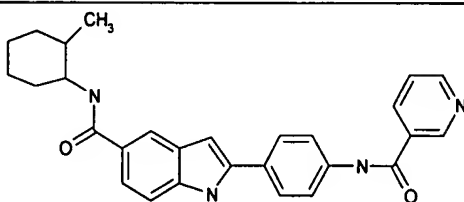
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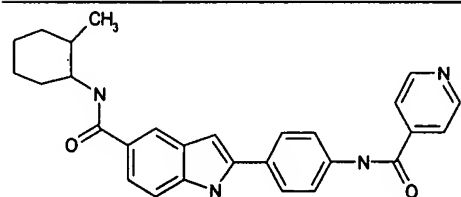
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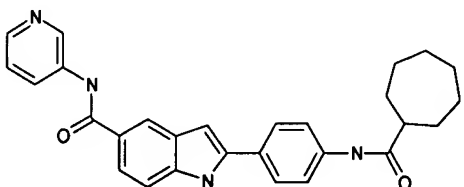
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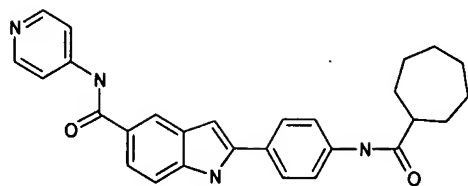
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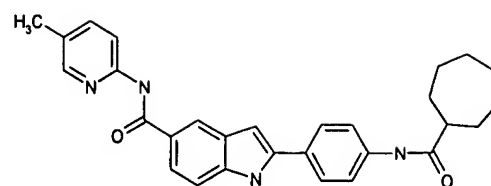
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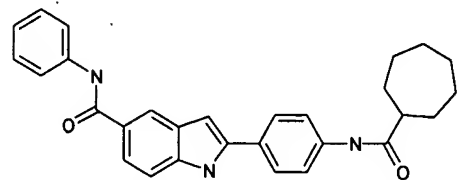
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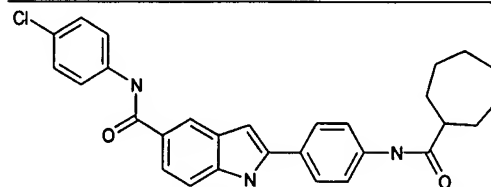
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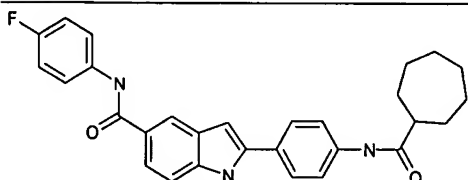
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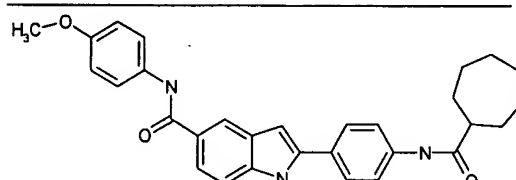
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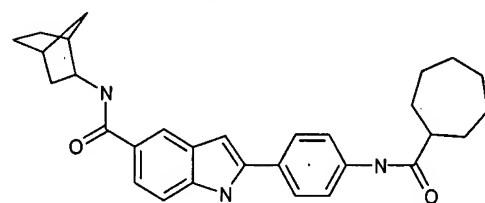
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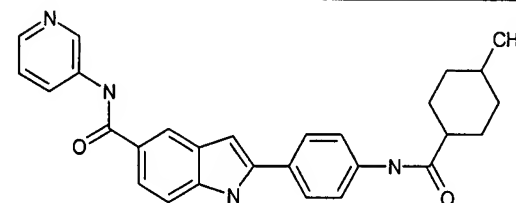
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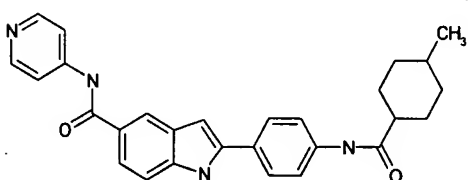
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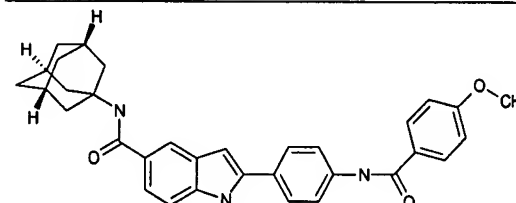
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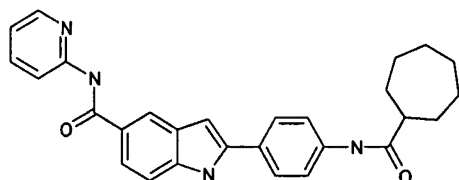
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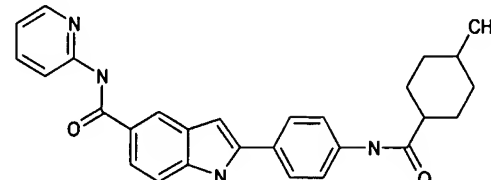
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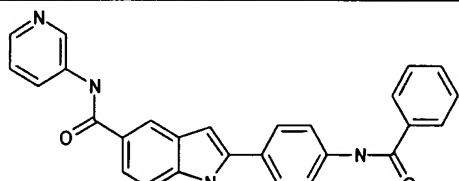
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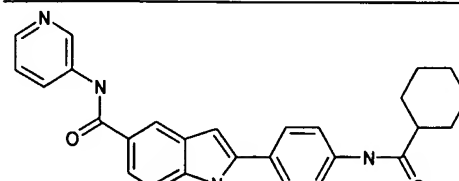
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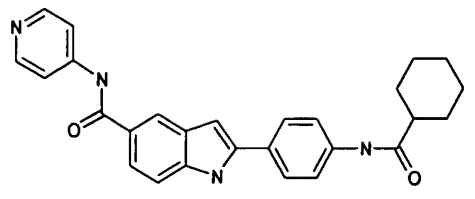
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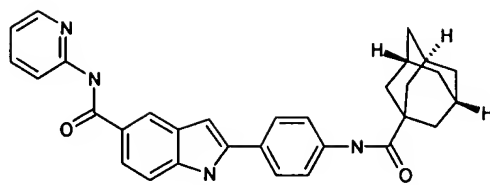
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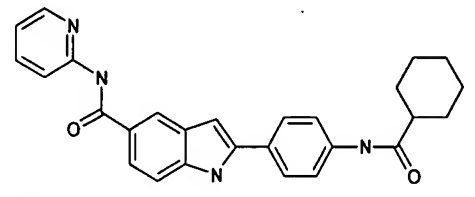
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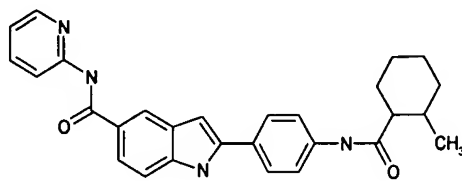
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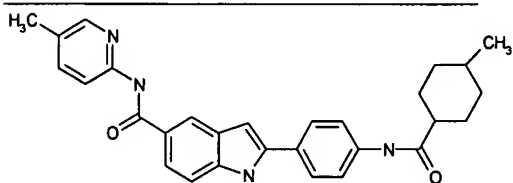
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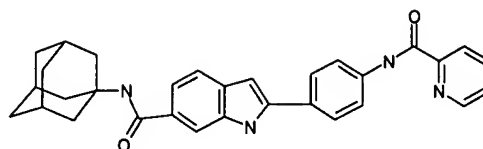
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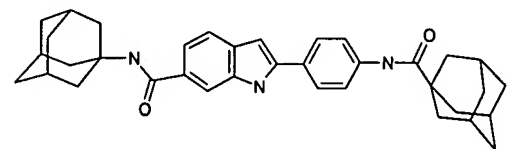
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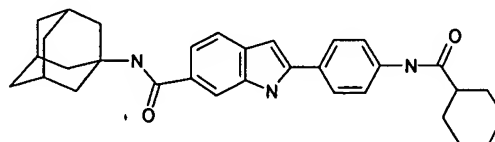
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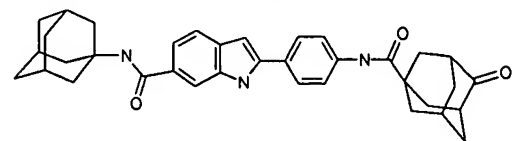
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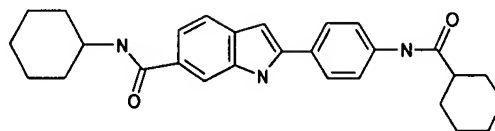
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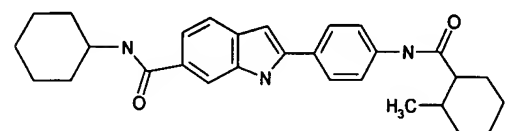
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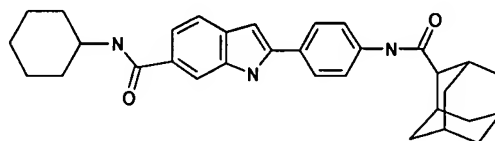
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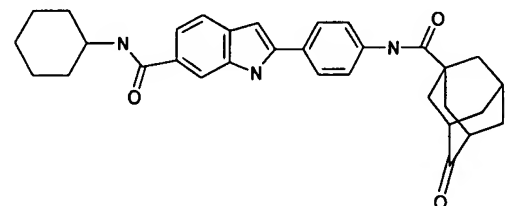
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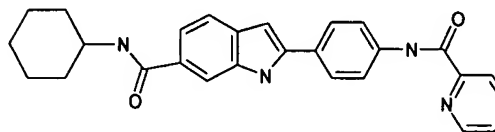
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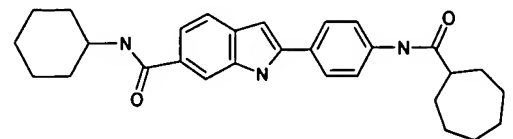
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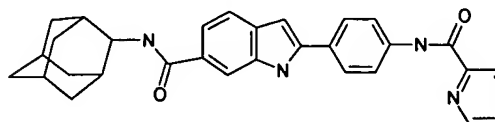
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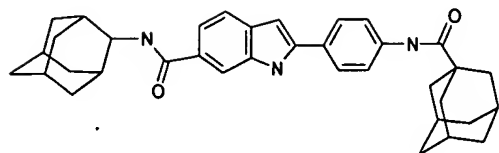
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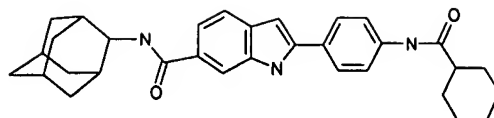
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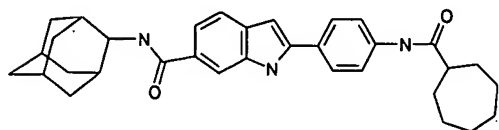
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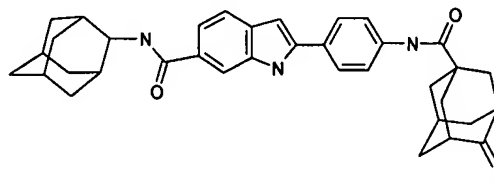
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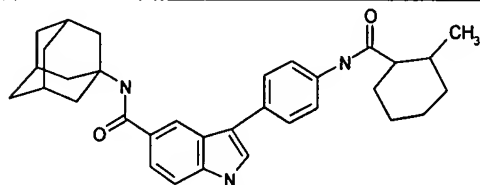
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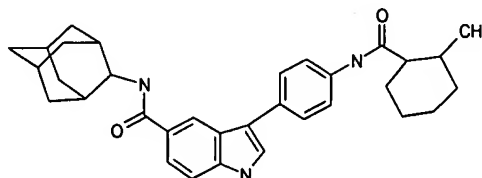
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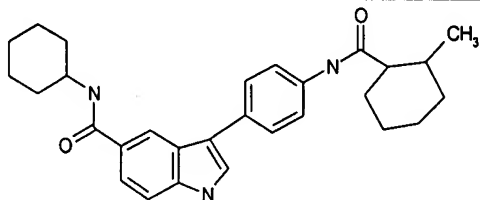
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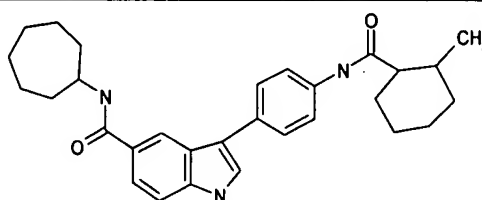
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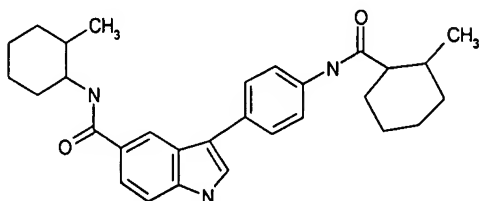
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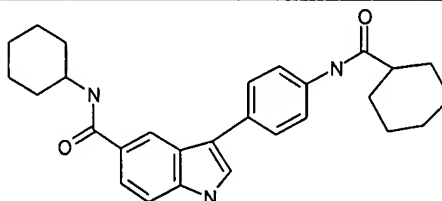
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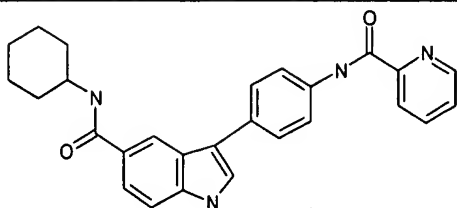
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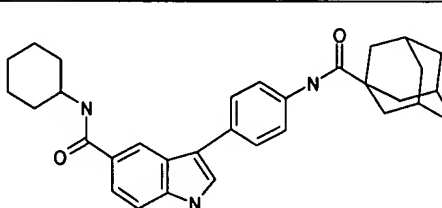
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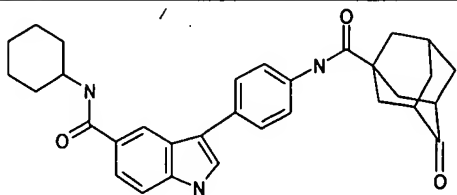
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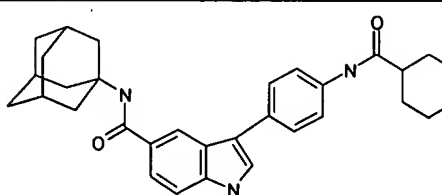
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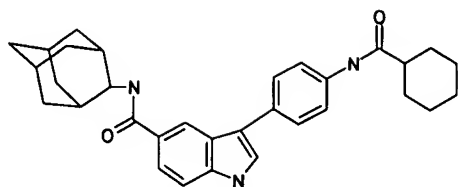
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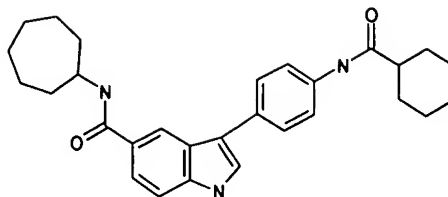
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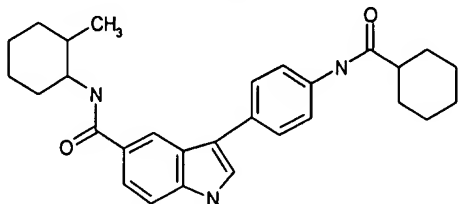
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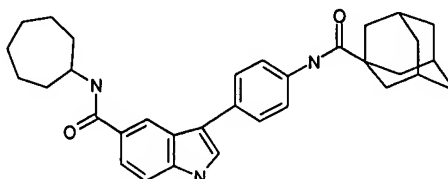
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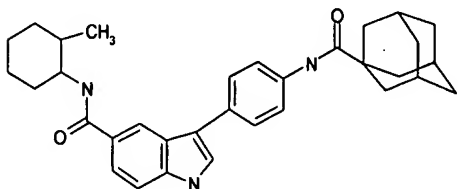
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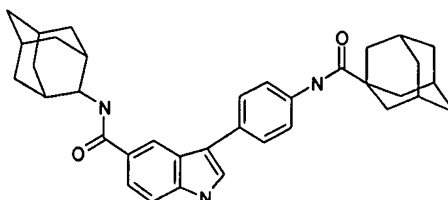
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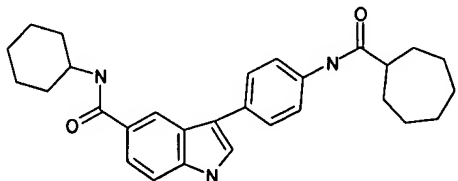
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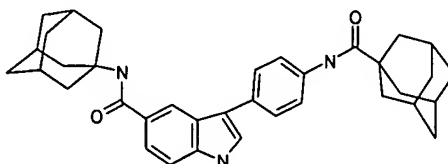
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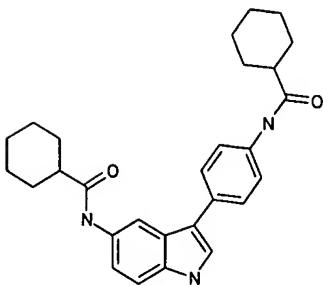
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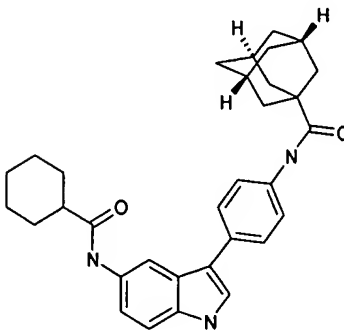
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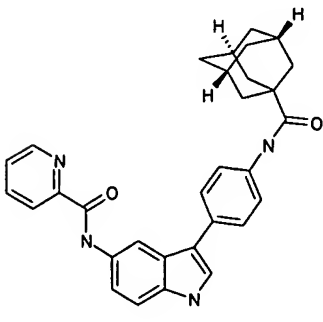
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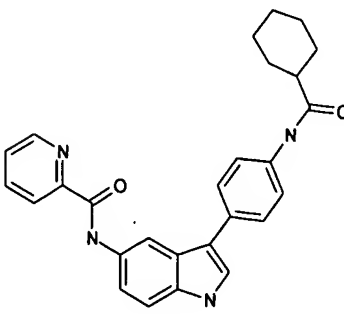
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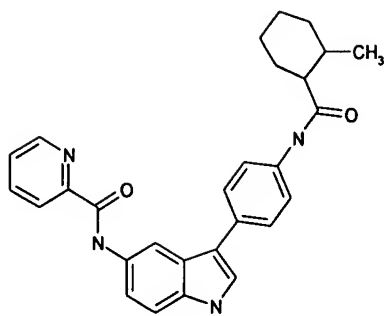
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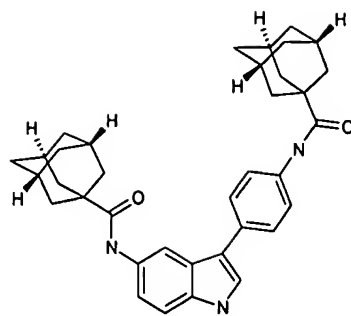
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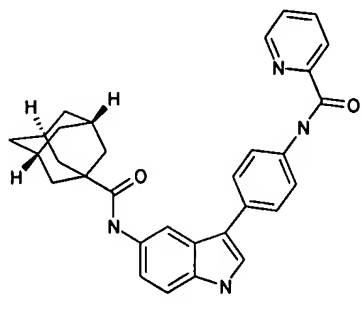
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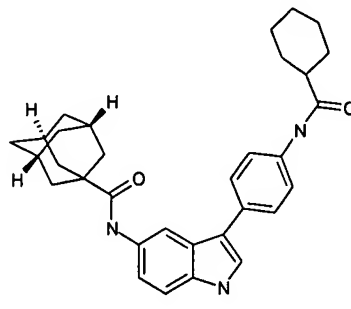
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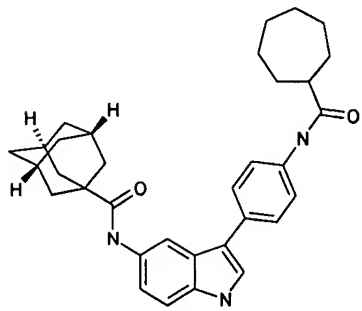
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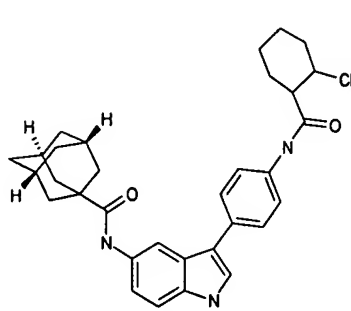
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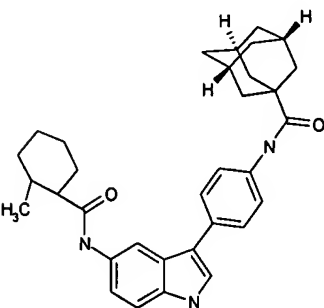
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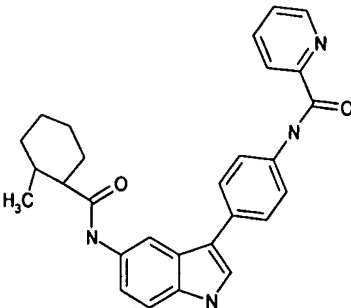
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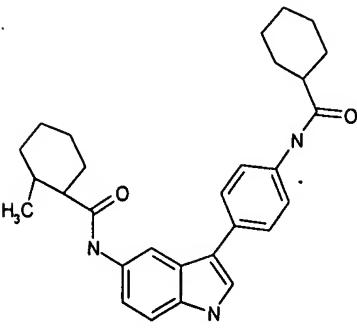
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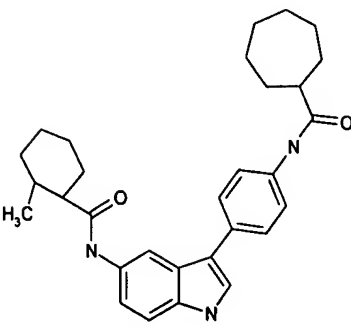
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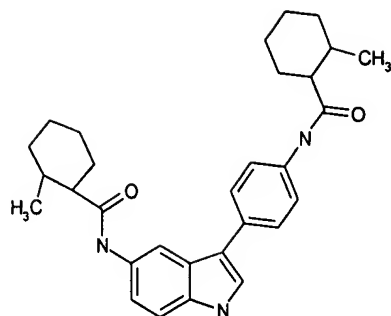
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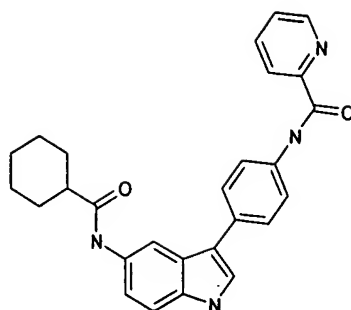
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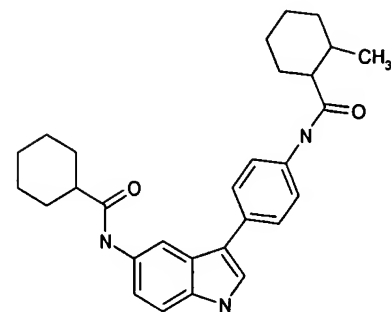
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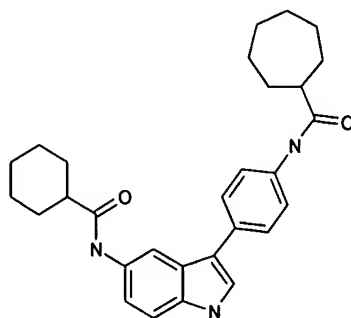
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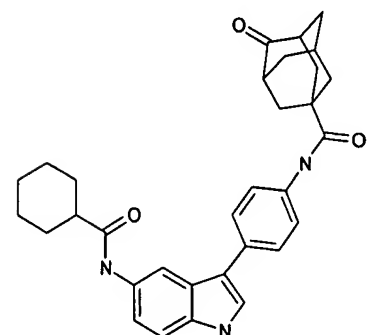
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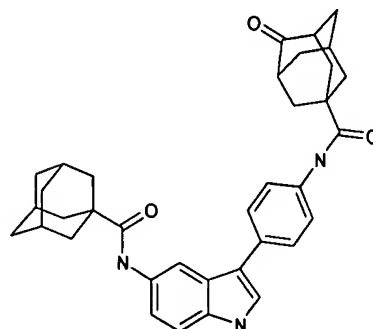
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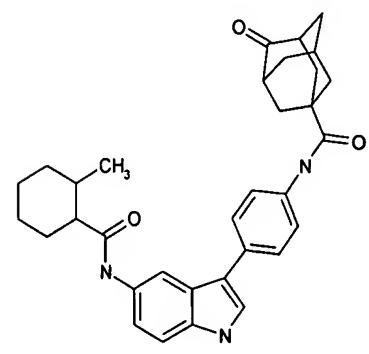
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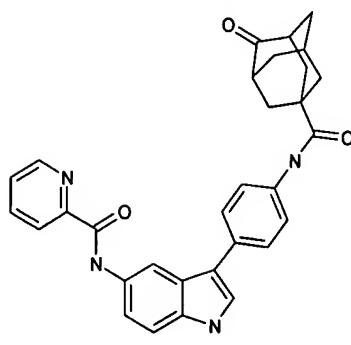
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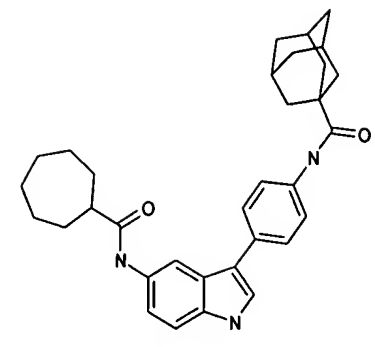
V-20,



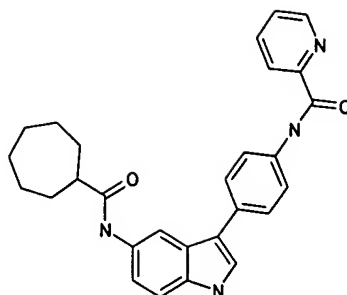
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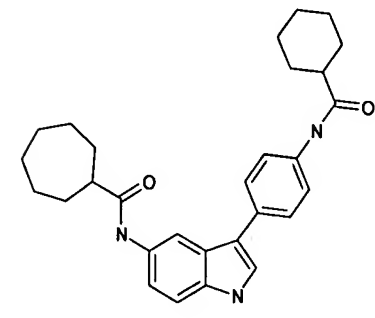
V-22,



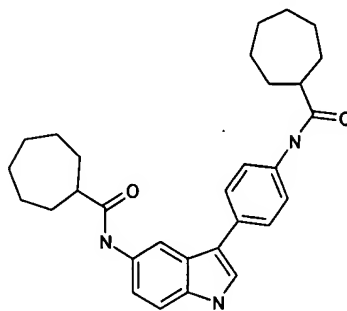
V-23.



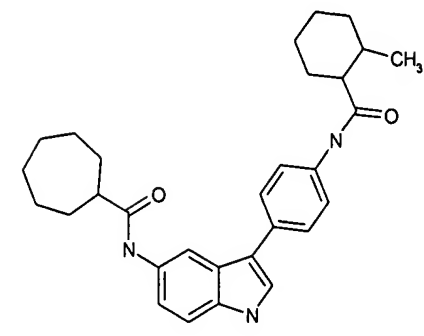
V-24.



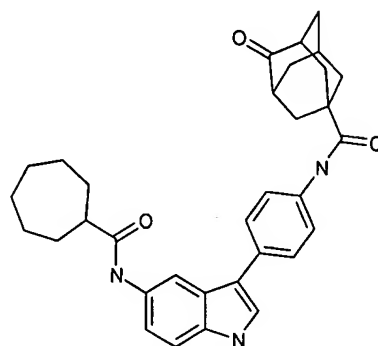
V-25.



V-26.

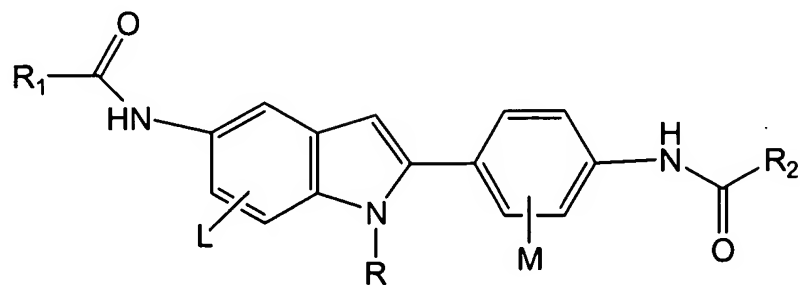


V-27 and



V-28.

7. (Previously presented) A compound or salt thereof represented by one of the following formulas:



Subgenus Ia;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF₃, OCF₃, CONH₂, CONHR and NHCOR₁;

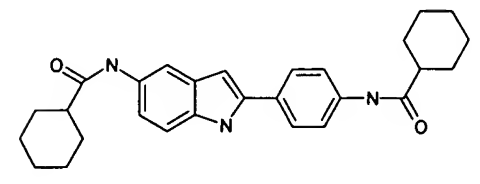
wherein R is selected from the group consisting of H, C₁-C₅ alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C₁-C₅ alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R₁ and R₂ are independently selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heterocyclic, polycyclic heterocyclic, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

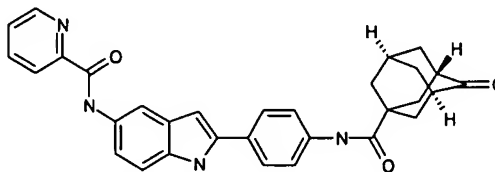
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, hydroxyamino, alkoxyamino, carbonyl, OH, OCH₃, COOH, COOR', COR', CN, CF₃, OCF₃, NO₂, NR'R', NHCOR', and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

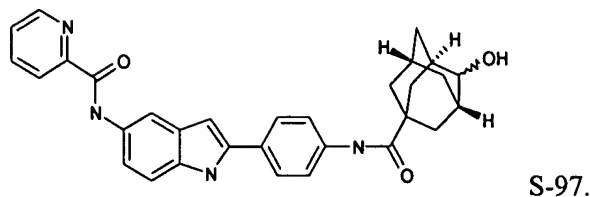
8. (Currently amended) The compound or salt thereof of Claim 7 selected from the group consisting of the following compounds: ~~S-6, S-96 and S-97.~~



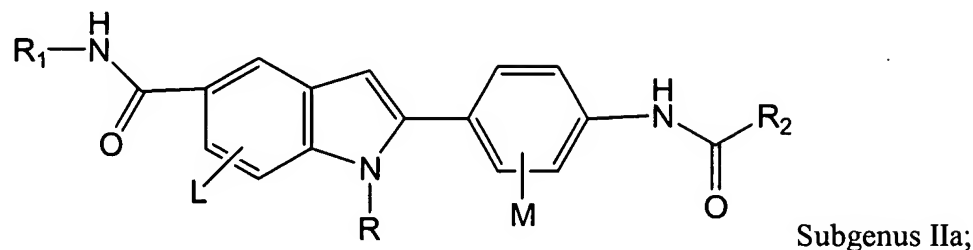
S-6,



S-96 and



9. (Previously presented) A compound or salt thereof represented by one of the following formulas:



wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF₃, OCF₃, CONH₂, CONHR and NHCOR₁;

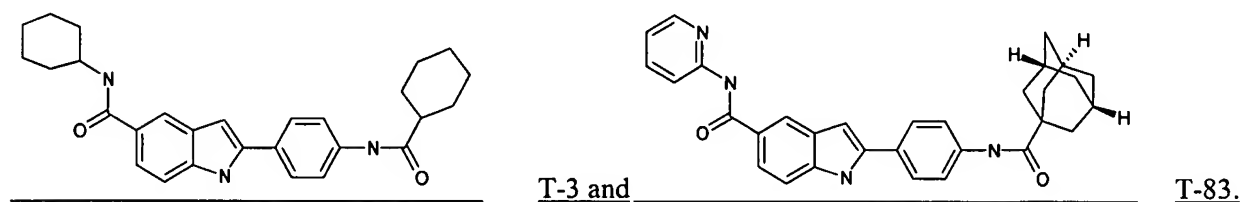
wherein R is selected from the group consisting of H, C₁-C₅ alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C₁-C₅ alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R₁ and R₂ are independently selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heterocyclic, polycyclic heterocyclic, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

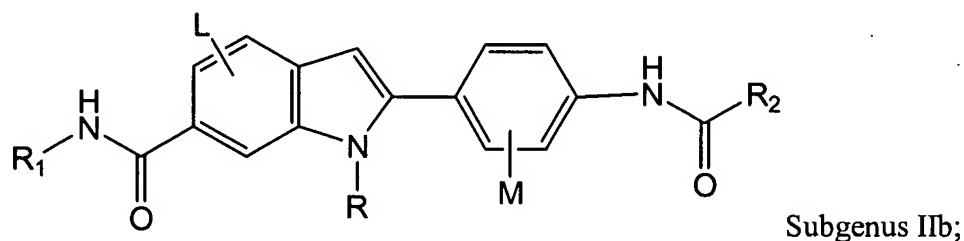
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, hydroxyamino, alkoxyamino, carbonyl, OH, OCH₃, COOH, COOR', COR', CN, CF₃, OCF₃, NO₂, NR'R', NHCOR', and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

10. (Currently amended) The compound or salt thereof of Claim 9 selected from the group consisting of the following compounds: ~~T-3, T-83 and T-102.~~



11. (Previously presented) A compound or salt thereof represented by one of the following formulas:



wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF₃, OCF₃, CONH₂, CONHR and NHCOR₁;

wherein R is selected from the group consisting of H, C₁-C₅ alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C₁-C₅ alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

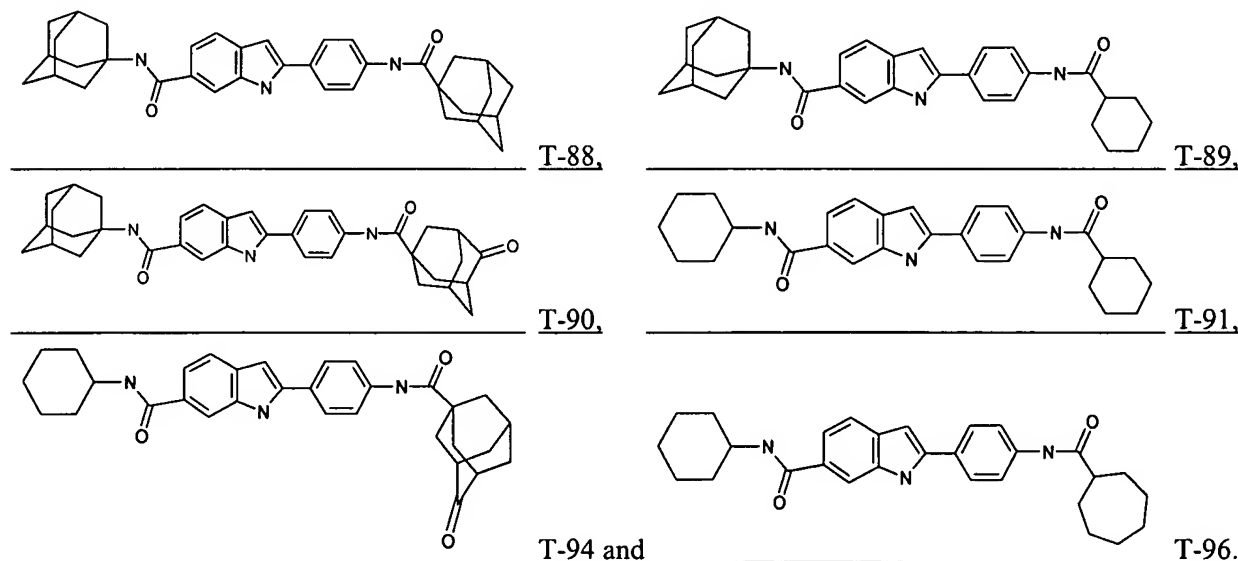
wherein R₁ and R₂ are independently selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heterocyclic, polycyclic heterocyclic, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3

heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, hydroxyamino, alkoxyamino, carbonyl, OH, OCH₃, COOH, COOR', COR', CN, CF₃, OCF₃, NO₂, NR'R', NHCOR', and CONR'R'; and

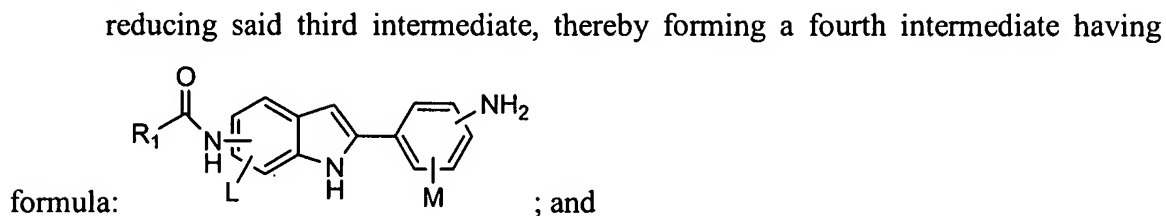
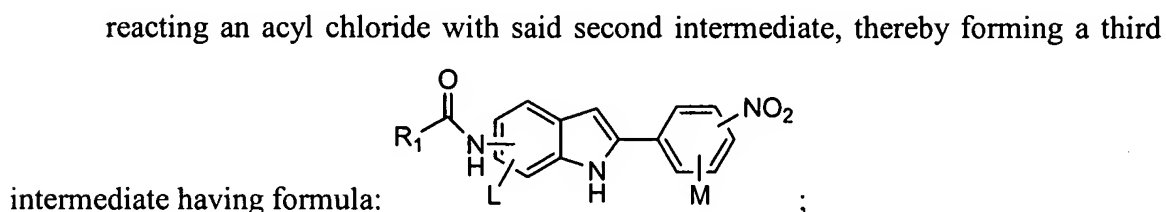
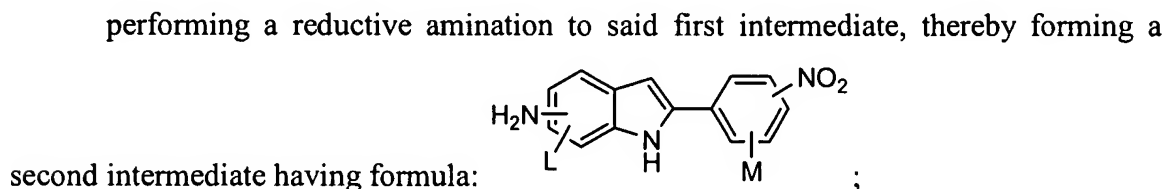
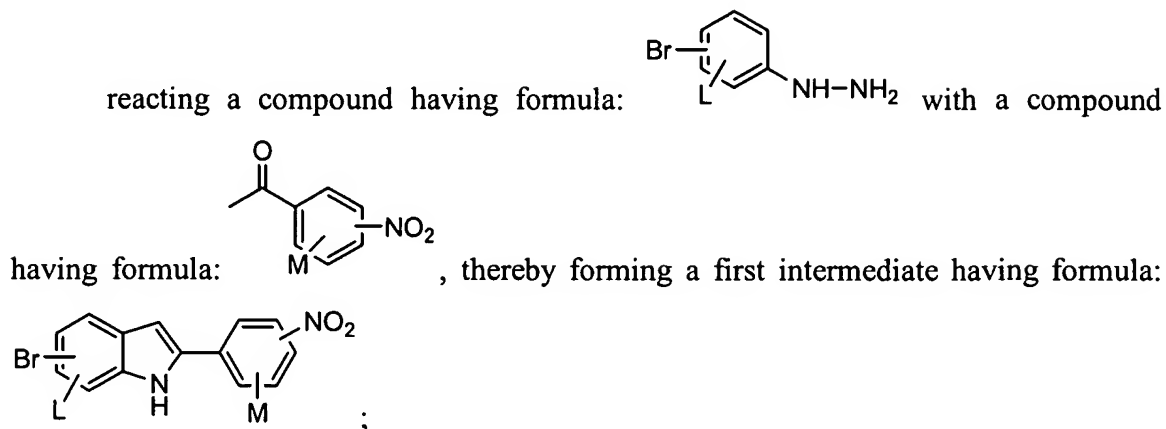
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C₃-C₉ cycloalkyl, substituted C₃-C₉ cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

12. (Currently amended) The compound or salt thereof of Claim 11 selected from the group consisting of the following compounds: ~~T-88, T-89, T-90, T-91, T-94 and T-96.~~



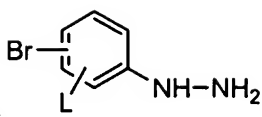
Claims 13 – 33 (Cancelled)

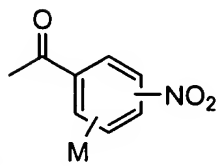
34. (Currently amended) A method of preparing a compound or salt thereof of Genus I as defined in Claim 1 comprising:



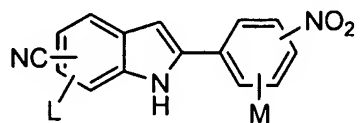
reacting an acyl chloride with the said fourth intermediate, thereby forming a compound or salt thereof of Genus I.

35. (Currently amended) A method of preparing a compound or salt thereof of Genus II as defined in Claim 1 comprising:

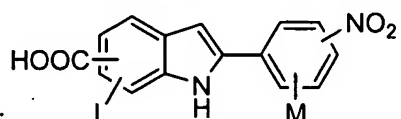
reacting a compound having formula:  with a compound

having formula: , thereby forming a first intermediate;

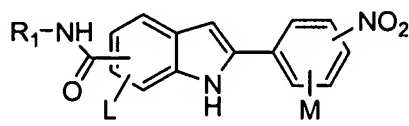
reacting said first intermediate with cyanide ion, thereby forming a second

intermediate having formula:  ;

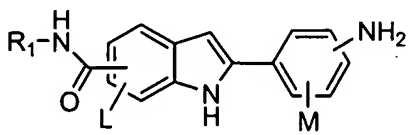
performing hydrolysis on said second intermediate, thereby forming a third

intermediate having formula:  ;

reacting said third intermediate with an alkylamine, thereby forming a fourth

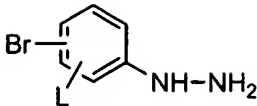
intermediate having formula:  ;

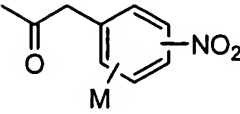
reducing said fourth intermediate; thereby forming a fifth intermediate having

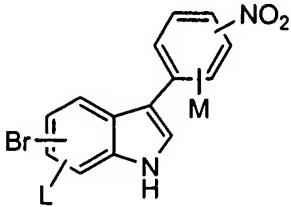
formula:  ; and

reacting an acyl chloride with said fifth intermediate; thereby forming a compound or salt thereof of Genus II.

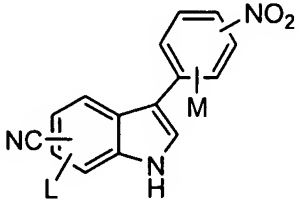
36. (Currently amended) A method of preparing a compound or salt thereof of Genus III as defined in Claim 1 comprising:

reacting a compound having formula:  with a compound

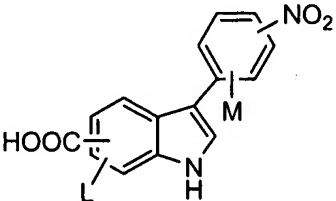
having formula:  in the presence of a Lewis acid, thereby forming a

first intermediate having formula:  ;

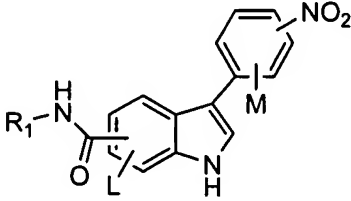
reacting said first intermediate with a cyanide ion, thereby forming a second

intermediate having formula:  ;

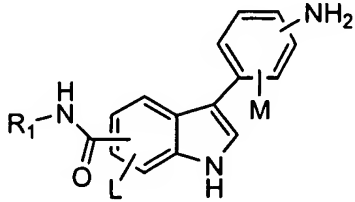
performing hydrolysis on said second intermediate, thereby forming a third

intermediate having formula:  ;

reacting said third intermediate with an alkylamine, thereby forming a fourth

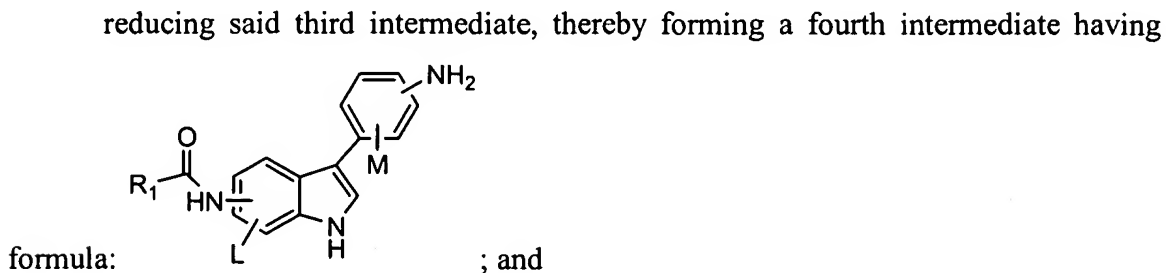
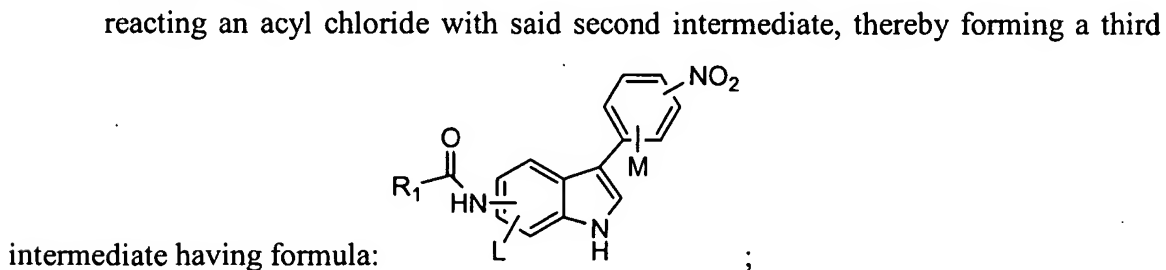
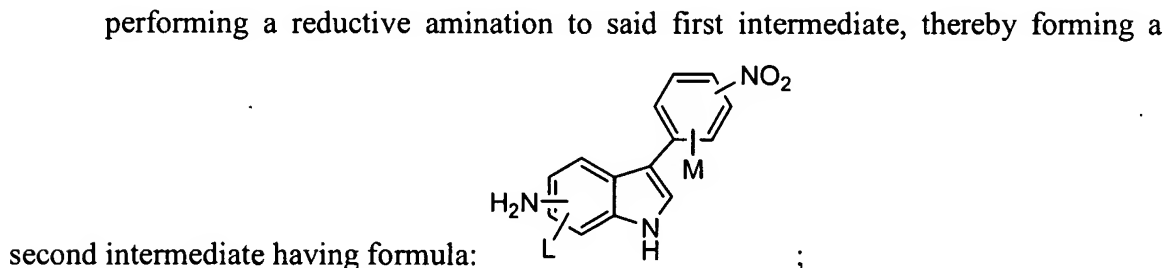
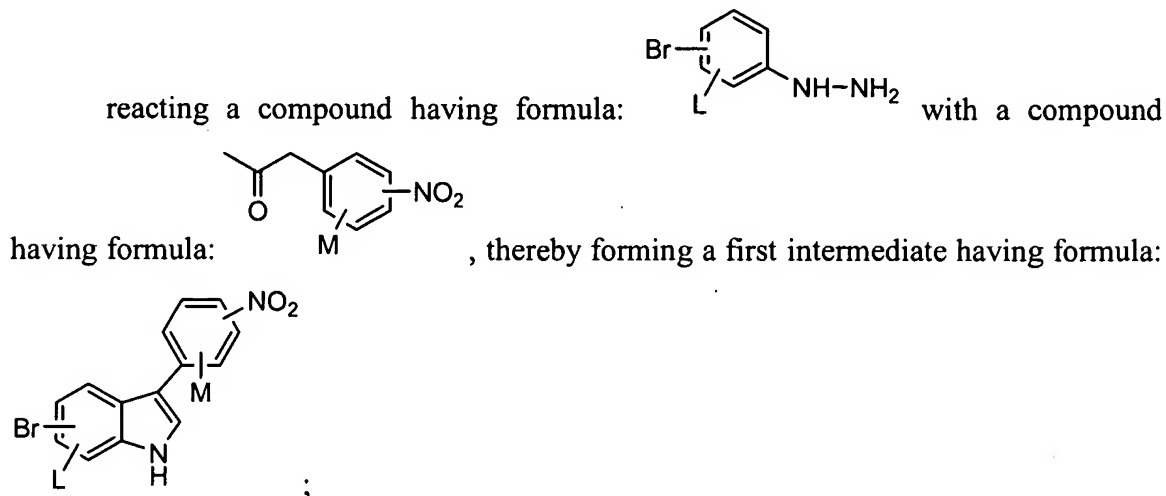
intermediate having formula:  ;

reducing said fourth intermediate; thereby forming a fifth intermediate having

formula:  ; and

reacting an acyl chloride with said fifth intermediate; thereby forming a compound or salt thereof of Genus III.

37. (Currently amended) A method of preparing a compound or salt thereof of Genus IV as defined in Claim 1 comprising:



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reacting an acyl chloride with said fourth intermediate, thereby forming a compound or salt thereof of Genus IV.

Claims 38 – 43 (Cancelled)